



2006  
circuit protection

 **Electrium**







Founded in 1897, Wylex introduced the first 'consumer unit' to the electrical industry, this original design was the forerunner to the 'Standard Range', which is still in wide use today. From its base at Wythenshawe, through a policy of continuous design improvement, Wylex has developed a comprehensive range of Domestic, Commercial and Industrial circuit protection devices based on quality and close attention to the practical requirements of the contractor including the fundamental requirements of electrical safety embodied in the relevant British and International Standards including IEE Wiring Regulations.

**Left**

Electrium's purpose built Commercial Centre in Cannock, Staffordshire

NH INSULATED CONSUMER UNITS	2	
NH METAL CONSUMER UNITS	6	
CONSUMER UNIT MCBs RCBOs & FUSES	9	
CONTROL MODULES	9	
NH DISTRIBUTION BOARDS	10	
DISTRIBUTION BOARD INCOMERS	13	
DISTRIBUTION BOARD MCBs & RCBOs	14	
NH MCCB PANEL BOARDS	16	
PANELBOARD NHG MCCBs	19	
NH FUSE SWITCH COMBINATION UNITS	20	
NH ISOLATORS	21	
STANDARD RANGE	22	
LIFELINE RCDs & ENCLOSURES	26	
SWITCH DISCONNECTORS & ISOLATORS	30	
TECHNICAL DATA & DIMENSIONS	32	
NUMERIC INDEX	44	



# THE NH RANGE

The NH range of consumer units provides contemporary styling with particular attention to installation features including:

- Generous cable preparation room with neutral and earth bars mounted on the top of the enclosure
- Supplied complete with incoming devices and fixed busbar system for speedy installation
- Insulated versions with side entry cut outs profiled to accept mini trunking and large segmented rear cable entries to allow trimming to the precise cable entry size
- Raised interior for maximum wiring space
- Circuit identification labels providing clear understanding of outgoing ways



## CUSTOM BUILT

To meet the ever changing requirements and designs of the modern electrical installation, Wylex offers a service where the standard range of products can be modified to specific customer needs.

Our technical services and engineering teams can assess the feasibility of a product requirement whilst our modern manufacturing facilities will produce a high quality competitive solution.





**NH804**



**NH804+3**



**NHRS504**



**NHIIIX6604**

**MAIN SWITCH**

CAT REF	MS RATING	MCB WAYS	DIN MODULES	
NH204/40	40A	2		
NH204/63	63A	2		
NH504	100A	5		
NH804	100A	8		
NH1104	100A	11		
NH1404	100A	14		
NH1904	100A	19		
NH504+3	100A	5	3	With DIN Accessory Section
NH804+3	100A	8	3	
NH804+6	100A	8	6	
NH1104+3	100A	11	3	

**RCD INCOMER**

CAT REF	RCD RATING	MCB WAYS	DIN MODULES	
NHRS204/40	40A 30mA	2		
NHRS204/63	63A 30mA	2		
NHRS504	100A 30mA	5		
NHRS804	100A 30mA	8		
NHRS1104	100A 30mA	11		
NHRS1404	100A 30mA	14		
NHRS1904	100A 30mA	19		
NHRM204/40	40A 100mA	2		
NHRM204/63	63A 100mA	2		
NHRM504	100A 100mA	5		
NHRM804	100A 100mA	8		
NHRM1104	100A 100mA	11		
NHRM1404	100A 100mA	14		
NHRM1904	100A 100mA	19		
NHRS504+3	100A 30mA	5	3	With DIN Accessory Section
NHRS804+3	100A 30mA	8	3	
NHRS804+6	100A 30mA	8	6	
NHRS1104+3	100A 30mA	11	3	
NHRM504+3	100A 100mA	5	3	
NHRM804+3	100A 100mA	8	3	
NHRM804+6	100A 100mA	8	6	
NHRM1104+3	100A 100mA	11	3	
NHTM504	100A 100mA TD*	5		
NHTM804	100A 100mA TD*	8		
NHTM1104	100A 100mA TD*	11		
NHTM1404	100A 100mA TD*	14		
NHTM1904	100A 100mA TD*	19		

\* Time Delay RCD

**DUAL TARIFF 100A MAIN SWITCH AND 100A MAIN SWITCH**

CAT REF	MS RATING	MCB WAYS	MS RATING	MCB WAYS
NHIIIX2404	100A	4	63A	2
NHIIIX3304	100A	3	100A	3
NHIIIX5404	100A	4	100A	5
NHIIIX4504	100A	5	100A	4
NHIIIX3904	100A	9	100A	3
NHIIIX4804	100A	8	100A	4
NHIIIX7504	100A	5	100A	7
NHIIIX6604	100A	6	100A	6
NHIIIX5704	100A	7	100A	5
NHIIIX9804	100A	8	100A	9
NHIIIX8904	100A	9	100A	8
NHIIIX11604	100A	6	100A	11
NHIIIX51204	100A	12	100A	5

**DUAL TARIFF 100A MAIN SWITCH AND 100A 30mA RCD MAIN SWITCH**

CAT REF	MS RATING	MCB WAYS	RCD RATING	MCB WAYS
NHRSX5704	100A	7	100A 30mA	5
NHRSX6604	100A	6	100A 30mA	6
NHRSX7504	100A	5	100A 30mA	7
NHRSX8904	100A	9	100A 30mA	8
NHRSX9804	100A	8	100A 30mA	9



### SPLIT LOAD

CAT REF	MS RATING	MCB WAYS	RCD RATING	MCB WAYS
NHRS2404	100A	4	80A 30mA	2
NHRS3304	100A	3	80A 30mA	3
NHRS4204	100A	2	80A 30mA	4
NHRS5404	100A	4	80A 30mA	5
NHRS4504	100A	5	80A 30mA	4
NHRS3604	100A	6	80A 30mA	3
NHRS6304	100A	3	80A 30mA	6
NHRS3904	100A	9	80A 30mA	3
NHRS4804	100A	8	80A 30mA	4
NHRS6604	100A	6	80A 30mA	6
NHRS5704	100A	7	80A 30mA	5
NHRS7504	100A	5	80A 30mA	7
NHRS8404	100A	4	80A 30mA	8
NHRS9304	100A	3	80A 30mA	9
NHRS12504	100A	5	80A 30mA	12
NHRS11604	100A	6	80A 30mA	11
NHRS10704	100A	7	80A 30mA	10
NHRS61104	100A	11	80A 30mA	6
NHRS71004	100A	10	80A 30mA	7
NHRS9804	100A	8	80A 30mA	9
NHRS8904	100A	9	80A 30mA	8
NHRS51204	100A	12	80A 30mA	5



### FLEXIBLE SPLIT LOAD CONSUMER UNITS

CAT REF	MS RATING	MCB WAYS MIN MAX	RCD RATING	MCB WAYS MIN MAX	MCB WAYS TOTAL
NHRS9SL	100A	3 6	80A 30mA	3 6	9
NHRS12SL	100A	3 9	80A 30mA	3 9	12
NHRS17SL	100A	5 12	80A 30mA	5 12	17

### TIME DELAY FLEXIBLE SPLIT LOAD CONSUMER UNITS

CAT REF	TD RCD	MCB WAYS MIN MAX	RCD RATING	MCB WAYS MIN MAX	MCB WAYS TOTAL
NHSTM9SL	100A 100mA	3 6	80A 30mA	3 6	9
NHSTM12SL	100A 100mA	3 9	80A 30mA	3 9	12
NHSTM17SL	100A 100mA	5 12	80A 30mA	5 12	17

Flexible consumer units utilise a full DIN rail and accept modular DIN devices such as a Bell Transformer or Timer.

### SPLIT LOAD WITH DIN RAIL ACCESSORY SECTION

CAT REF	MS RATING	MCB WAYS	RCD RATING	MCB WAYS	NO OF MODULES
NHRS6504+6	100A	5	80A 30mA	6	6
NHRS5604+6	100A	6	80A 30mA	5	6
NHRS7704+3	100A	7	80A 30mA	7	3
NHRS8604+3	100A	6	80A 30mA	8	3
NHRS6804+3	100A	8	80A 30mA	6	3

### SPLIT LOAD WITH TIME DELAY RCD INCOMER

CAT REF	TD RCD	MCB WAYS	RCD RATING	MCB WAYS
NHSTM3604	100A 100mA	6	80A 30mA	3
NHSTM4504	100A 100mA	5	80A 30mA	4
NHSTM5404	100A 100mA	4	80A 30mA	5
NHSTM6304	100A 100mA	3	80A 30mA	6
NHSTM3904	100A 100mA	9	80A 30mA	3
NHSTM4804	100A 100mA	8	80A 30mA	4
NHSTM5704	100A 100mA	7	80A 30mA	5
NHSTM6604	100A 100mA	6	80A 30mA	6
NHSTM7504	100A 100mA	5	80A 30mA	7
NHSTM8404	100A 100mA	4	80A 30mA	8
NHSTM9304	100A 100mA	3	80A 30mA	9
NHSTM12504	100A 100mA	5	80A 30mA	12
NHSTM11604	100A 100mA	6	80A 30mA	11
NHSTM8904	100A 100mA	9	80A 30mA	8
NHSTM9804	100A 100mA	8	80A 30mA	9
NHSTM10704	100A 100mA	7	80A 30mA	10
NHSTM71004	100A 100mA	10	80A 30mA	7
NHSTM61104	100A 100mA	11	80A 30mA	6
NHSTM51204	100A 100mA	12	80A 30mA	5



A range of matching DIN enclosures is also available, see page 29.



NH806



NHRS1106



NHRS4506



NHRS6606

## MAIN SWITCH

CAT REF	MS RATING	MCB WAYS
NH206/40	40A	2
NH206/63	63A	2
NH506	100A	5
NH806	100A	8
NH1106	100A	11
NH1406	100A	14
NH1906	100A	19

## RCD INCOMER

CAT REF	RCD RATING	MCB WAYS
NHRS206/40	40A 30mA	2
NHRS206/63	63A 30mA	2
NHRS506	100A 30mA	5
NHRS806	100A 30mA	8
NHRS1106	100A 30mA	11
NHRS1406	100A 30mA	14
NHRS1906	100A 30mA	19
NHRM206/40	40A 100mA	2
NHRM206/63	63A 100mA	2
NHRM506	100A 100mA	5
NHRM806	100A 100mA	8
NHRM1106	100A 100mA	11
NHRM1406	100A 100mA	14
NHRM1906	100A 100mA	19
NHTM506	100A 100mA time delay	5
NHTM806	100A 100mA time delay	8
NHTM1106	100A 100mA time delay	11
NHTM1406	100A 100mA time delay	14
NHTM1906	100A 100mA time delay	19

## SPLIT LOAD

CAT REF	MS RATING	MCB WAYS	RCD RATING	MCB WAYS
NHRS2406	100A	4	80A 30mA	2
NHRS3306	100A	3	80A 30mA	3
NHRS4206	100A	2	80A 30mA	4
NHRS5406	100A	4	80A 30mA	5
NHRS4506	100A	5	80A 30mA	4
NHRS3606	100A	6	80A 30mA	3
NHRS6306	100A	3	80A 30mA	6
NHRS3906	100A	9	80A 30mA	3
NHRS4806	100A	8	80A 30mA	4
NHRS6606	100A	6	80A 30mA	6
NHRS5706	100A	7	80A 30mA	5
NHRS7506	100A	5	80A 30mA	7
NHRS8406	100A	4	80A 30mA	8
NHRS9306	100A	3	80A 30mA	9
NHRS12506	100A	5	80A 30mA	12
NHRS11606	100A	6	80A 30mA	11
NHRS10706	100A	7	80A 30mA	10
NHRS61106	100A	11	80A 30mA	6
NHRS71006	100A	10	80A 30mA	7
NHRS9806	100A	8	80A 30mA	9
NHRS8906	100A	9	80A 30mA	8
NHRS51206	100A	12	80A 30mA	5

For Dual RCD insulated consumer units see page 8

Flush mounting consumer units available to order.  
Suffix Catalogue Reference with /FLU eg: **NHRS6606/FLU**





NHIIIX4506



NHSTM6606



NHR12SLM



NH806+3

DUAL TARIFF 100A MAIN SWITCH & 100A MAIN SWITCH

CAT REF	MS RATING	MCB WAYS	MS RATING	MCB WAYS
NHIIIX2406	100A	4	63A	2
NHIIIX3306	100A	3	100A	3
NHIIIX4506	100A	5	100A	4
NHIIIX5406	100A	4	100A	5
NHIIIX7506	100A	5	100A	7
NHIIIX6606	100A	6	100A	6
NHIIIX5706	100A	7	100A	5
NHIIIX9806	100A	8	100A	9
NHIIIX8906	100A	9	100A	8
NHIIIX51206	100A	12	100A	5
NHIIIX11606	100A	6	100A	11

DUAL TARIFF 100A MAIN SWITCH & 100A 30mA RCD SWITCH

CAT REF	MS RATING	MCB WAYS	RCD RATING	MCB WAYS
NHRXS5706	100A	7	100A 30mA	5
NHRXS6606	100A	6	100A 30mA	5
NHRXS7506	100A	5	100A 30mA	7
NHRXS8906	100A	9	100A 30mA	8
NHRXS9806	100A	8	100A 30mA	9

100mA available to order

SPLIT LOAD WITH TIME DELAY RCD INCOMER

CAT REF	TD RCD RATING	MCB WAYS	RCD RATING	MCB WAYS
NHSTM3606	100A 100mA	6	80A 30mA	3
NHSTM4506	100A 100mA	5	80A 30mA	4
NHSTM5406	100A 100mA	4	80A 30mA	5
NHSTM6306	100A 100mA	3	80A 30mA	6
NHSTM3906	100A 100mA	9	80A 30mA	3
NHSTM4806	100A 100mA	8	80A 30mA	4
NHSTM5706	100A 100mA	7	80A 30mA	5
NHSTM6606	100A 100mA	6	80A 30mA	6
NHSTM7506	100A 100mA	5	80A 30mA	7
NHSTM8406	100A 100mA	4	80A 30mA	8
NHSTM9306	100A 100mA	3	80A 30mA	9
NHSTM12506	100A 100mA	5	80A 30mA	12
NHSTM11606	100A 100mA	6	80A 30mA	11
NHSTM8906	100A 100mA	9	80A 30mA	8
NHSTM9806	100A 100mA	8	80A 30mA	9
NHSTM10706	100A 100mA	7	80A 30mA	10
NHSTM71006	100A 100mA	10	80A 30mA	7
NHSTM61106	100A 100mA	11	80A 30mA	6
NHSTM51206	100A 100mA	12	80A 30mA	5

FLEXIBLE SPLIT LOAD CONSUMER UNITS

CAT REF	MS RATING	MCB WAYS MIN MAX	RCD RATING	MCB WAYS MIN MAX	MCB WAYS TOTAL
NHR9SLM	100A	3 6	80A 30mA	3 6	9
NHR12SLM	100A	3 9	80A 30mA	3 9	12
NHR17SLM	100A	5 12	80A 30mA	5 12	17

Flexible consumer units utilise a full DIN rail and accept modular DIN devices such as Bell Transformer or Timer.

MAIN SWITCH ISOLATOR WITH DIN RAIL ACCESSORY SECTION

CAT REF	MS RATING	MCB WAYS	NO of MODULE WAYS
NH506+3	100A	5	3
NH806+3	100A	8	3
NH806+6	100A	8	6
NH1106+3	100A	11	3

RCD MAIN ISOLATOR WITH DIN RAIL ACCESSORY SECTION

CAT REF	RCD RATING	MCB WAYS	No of MODULE WAYS
NHR5506+3	100A 30mA	5	3
NHR8806+3	100A 30mA	8	3
NHR8806+6	100A 30mA	8	6
NHR1106+3	100A 30mA	11	3

SPLIT LOAD WITH DIN RAIL ACCESSORY SECTION

CAT REF	MS RATING	MCB WAYS	RCD RATING	MCB WAYS	No of MODULE WAYS
NHR55606+6	100A	5	80A 30mA	6	6
NHR57706+3	100A	7	80A 30mA	7	3

100mA available to order





**NHDIS1414**

**METAL – SPLIT LOAD DUPLEX**

CAT REF	TOP BANK		BOTTOM BANK	
	MS RATING	MCB WAYS	RCD RATING	MCB WAYS
NHDIS88	100A	8	80A 30mA	8
NHDIS1111	100A	11	80A 30mA	11
NHDIS1414	100A	14	80A 30mA	14
NHDIS1919	100A	19	80A 30mA	19
NHDTMS88	100A 100mA TD	8	80A 30mA	8
NHDTMS1111	100A 100mA TD	11	80A 30mA	11
NHDTMS1414	100A 100mA TD	14	80A 30mA	14
NHDTMS1919	100A 100mA TD	19	80A 30mA	19

**METAL – DUAL TARIFF DUPLEX**

CAT REF	TOP BANK		BOTTOM BANK	
	MS RATING	MCB WAYS	RCD RATING	MCB WAYS
NHDII88	100A	8	100A	8
NHDII1111	100A	11	100A	11
NHDII1414	100A	14	100A	14
NHDII1919	100A	19	100A	19
NHDISX88	100A	8	100A 30mA	8
NHDISX1111	100A	11	100A 30mA	11
NHDISX1414	100A	14	100A 30mA	14
NHDISX1919	100A	19	100A 30mA	19
NHDSSX88	100A 30mA	8	100A 30mA	8
NHDSSX1111	100A 30mA	11	100A 30mA	11
NHDSSX1414	100A 30mA	14	100A 30mA	14
NHDSSX1919	100A 30mA	19	100A 30mA	19

**NOTE**

ADDITIONAL CONFIGURATIONS ARE AVAILABLE.  
FOR FURTHER INFORMATION, PLEASE CONTACT OUR  
TECHNICAL SERVICES DEPARTMENT.

INSULATED DUPLEX CONSUMER UNITS AVAILABLE DURING 2006



**NHISS5504**

**INSULATED – DUAL SPLIT LOAD RCD**

CAT REF	ISOLATOR RATING	TOTAL No of MCB WAYS	A		B	
			RCD RATING	MCB WAYS	MS RATING	MCB WAYS
NHISS5504	100A	10	80A 30mA	5	80A 30mA	5
NHISS8704	100A	15	80A 30mA	7	80A 30mA	8

100mA RCD available in either 'A' or 'B' section to order

**METAL – DUAL SPLIT LOAD RCD**

CAT REF	ISOLATOR RATING	TOTAL No of MCB WAYS	A		B	
			RCD RATING	MCB WAYS	MS RATING	MCB WAYS
NHISS3406	100A	7	80A 30mA	4	80A 30mA	3
NHISS4606	100A	10	80A 30mA	6	80A 30mA	4
NHISS5506	100A	10	80A 30mA	5	80A 30mA	5
NHISS7806	100A	15	80A 30mA	8	80A 30mA	7
NHISS8706	100A	15	80A 30mA	7	80A 30mA	8



**FALNH10SL**

**SKELETON UNITS**

CAT REF	DESCRIPTION
FALNH706	7 way with main switch
FALNH1106	11 way with main switch
FALNHR706	7 way with main RCD
FALNHR1106	11 way with main RCD
FALNH10SL*	10 way flexible split load 100A main switch 80A 30mA RCD
FALNH15SL*	15 way flexible split load 100A main switch 80A 30mA RCD
FALNHIX10SL	10 way flexible dual tariff 2x 100A main switch

\* Supplied with both metal and plastic covers



NSB06 NSB10 NSB16 NSB20 NSB32 NSB40 NSB50

**NSB MINIATURE CIRCUIT BREAKERS (6KA)**

CAT REF	RATING	POLES	MODULE
NSB06	6A	1	1
NSB10	10A	1	1
NSB16	16A	1	1
NSB20	20A	1	1
NSB32	32A	1	1
NSB40	40A	1	1
NSB50	50A	1	1

**NSC MODULAR CARTRIDGE FUSE HOLDERS WITH FUSE**

CAT REF	RATING	POLES	MODULE
NSC05	5A	1	1
NSC10	10A	1	1
NSC15	15A	1	1
NSC20	20A	1	1
NSC30	30A	1	1
NSC35	35A	1	2
NSC40	40A	1	2
NSC45	45A	1	2

**SPARE FUSES**

CAT REF	RATING
CFL05	5A
CFL10	10A
CFL15	15A
CFL20	20A
CFL30	30A
CFL35	35A
CFL40	40A
CFL45	45A



NSC05 NSC10 NSC20 NSC30 NSC45

**NSBS COMBINED MCB/RCD UNITS (C CURVE)**

CAT REF	CURRENT RATING	RCD RATING	POLES	MODULES
NSBS6/2	6A	30mA	2P	2
NSBS10/2	10A	30mA	2P	2
NSBS16/2	16A	30mA	2P	2
NSBS20/2	20A	30mA	2P	2
NSBS32/2	32A	30mA	2P	2
NSBS40/2	40A	30mA	2P	2
NSBS6/1*	6A	30mA	SP	1
NSBS10/1*	10A	30mA	SP	1
NSBS16/1*	16A	30mA	SP	1
NSBS20/1*	20A	30mA	SP	1
NSBS32/1*	32A	30mA	SP	1
NSBS40/1*	40A	30mA	SP	1

\*NH Insulated units only



NSBS32/1 NSBS32/2

**DIN RAIL MODULAR DEVICES FOR USE IN + UNITS & FLEXIBLE UNITS**

CAT REF	PRODUCT	MODULE
ME232-230	Staircase timer	1
MDT2	Digital time clock 1 channel 1xNO/NC contact 16A	1
MSTT-111	Digital time clock 1 channel 1xNO contact 16A	2
MSTT-227	Digital time clock 2 channel	2
MESB-20NO	20A 2 pole contactor	1
MESB-24NO	24A 4 pole contactor	2
MESB-40NO	40A 4 pole contactor	3
MESB-63NO	63A 4 pole contactor	3
MTS8	Bell transformer	2
MSTU6011S	Disc type time clock 1 channel 1xNC contact 16A	3
MSTU8011S	Disc type time clock 1 channel 1xNC contact 16A	3
MAT1	Disc type time clock 1 channel 1xNO contact 16A	1

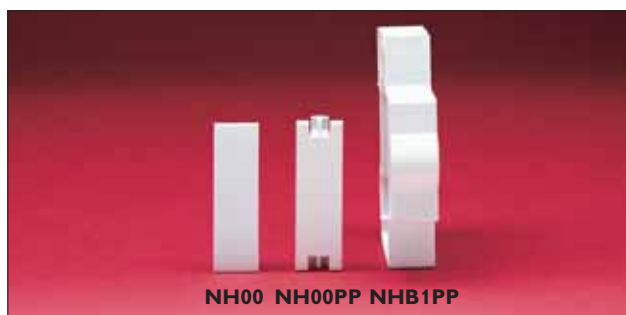
When wiring in NH Consumer Units contact Wylex technical services department

**NH ACCESSORIES**

CAT REF	PRODUCT
NHB1PP	Blanking plate for busbar & cover
NH00PP	Blanking plate twist fit for cover
NH00	Blanking plate push fit for cover
MCBLDX	MCB locking device
EIU	Cable gland kit
DLDX	Isolator locking device
WPL	Padlock for DLDX & HLDX



MDT2 MAT1



NH00 NH00PP NHB1PP





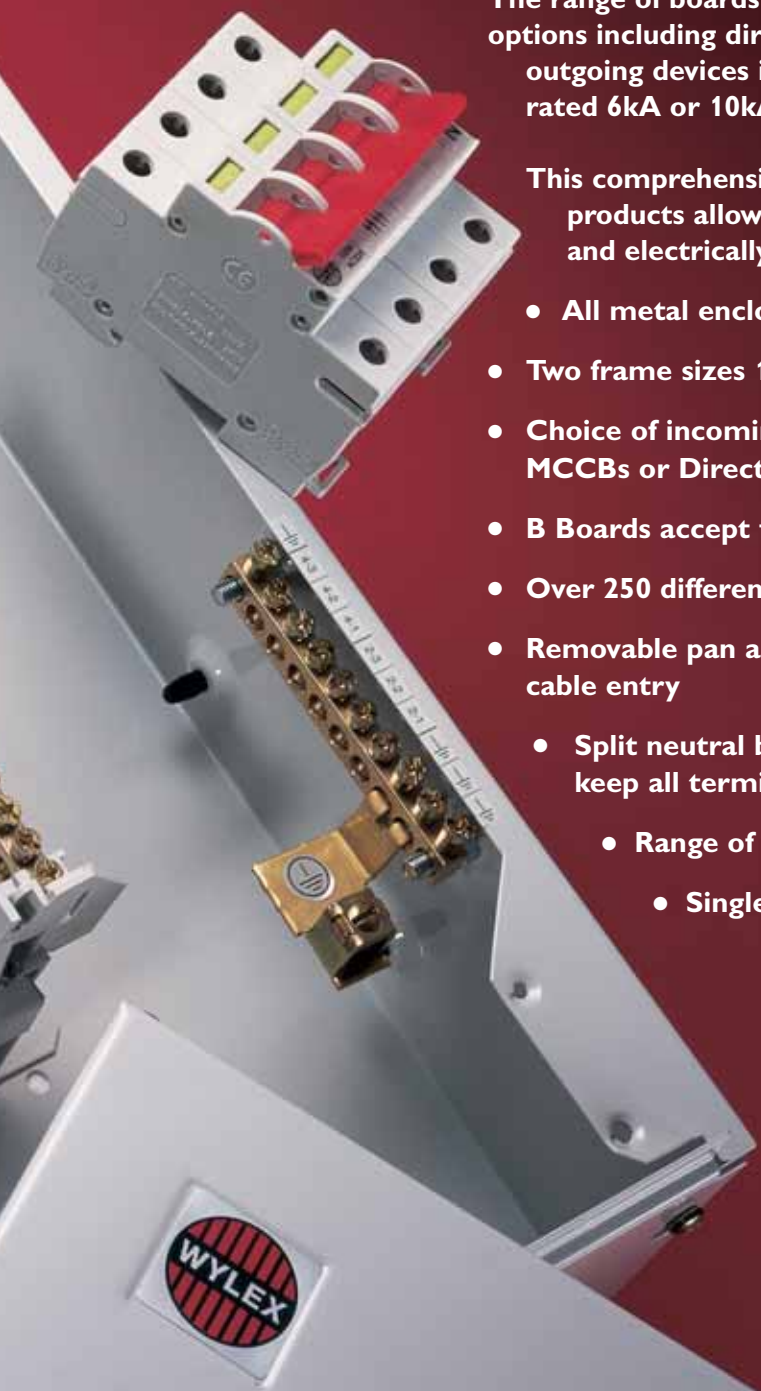
# NH DISTRIBUTION BOARDS

The Wylex range of NH distribution Boards is designed to cater for a variety of industrial and commercial applications.

The range of boards is complemented by a wide variety of incoming options including direct connection, switch disconnecter and RCD, outgoing devices include a broad selection of MCBs and RCBOs rated 6kA or 10kA.

This comprehensive collection of circuit protection and distribution products allows the contractor to select the most economical and electrically appropriate solutions.

- All metal enclosures for both A Boards and B Boards
- Two frame sizes 125A and 200A B Boards
- Choice of incoming devices including Switch Disconnecter, RCDs, MCCBs or Direct Connection
- B Boards accept four pole incomers
- Over 250 different boards available from standard catalogue items
- Removable pan assembly and gland plates for easy fixing and cable entry
  - Split neutral bars help make full use of interior space and keep all terminals accessible
    - Range of 10kA and 6kA MCBs and RCBOs
    - Single pole 18mm wide RCBOs





NHSN81

## TYPE 'A' SP &amp; N DISTRIBUTION BOARD

CAT REF	SWITCH RATING	NO. OF SP WAYS
NHSN51	125A	5
NHSN81	125A	8
NHSN111	125A	11
NHSN141	125A	14
NHSN161	125A	16
NHSN191	125A	19

A Boards excluding incomers available to order. Range of incoming devices shown opposite.



NHTN4

## TP &amp; N TYPE 'B' DISTRIBUTION BOARDS (Excluding Incomer)

CAT REF	DESCRIPTION	NO. OF TP WAYS
NHTN4	125A Distribution board Excluding incomer	4
NHTN6	125A Distribution board Excluding incomer	6
NHTN8	125A Distribution board Excluding incomer	8
NHTN12	125A Distribution board Excluding incomer	12
NHTN16	125A Distribution board Excluding incomer	16
NHTN20	125A Distribution board Excluding incomer	20
NHTN24	125A Distribution board Excluding incomer	24

Suitable for use with switch disconnector; RCD or direct connection incomer arrangement

**IP66** TP & N MCB Distribution boards are available up to 16 TP ways



NHTN40

## TP &amp; N TYPE 'B' DISTRIBUTION BOARDS (Excluding Incomer)

CAT REF	DESCRIPTION	NO. OF TP WAYS
NHTN40	200A Distribution board Excluding incomer	4
NHTN60	200A Distribution board Excluding incomer	6
NHTN80	200A Distribution board Excluding incomer	8
NHTN120	200A Distribution board Excluding incomer	12
NHTN160	200A Distribution board Excluding incomer	16
NHTN200	200A Distribution board Excluding incomer	20
NHTN240	200A Distribution board Excluding incomer	24

Suitable for switch disconnector; or direct connection incomer arrangement

Flush mounting boards also available add suffix **/FLU** to Catalogue Reference

eg: **NHTN4/FLU**





WS102

## NH A BOARD INCOMERS

CAT REF	DESCRIPTION	RATING
WS602	2 Pole 2 module switch	63A
WS102	2 Pole 2 module switch	100A
WS122	2 Pole 2 module switch	125A
WRS63/2	Double Pole RCD	63A 30mA
WRS80/2	Double Pole RCD	80A 30mA
WRS100/2	Double Pole RCD	100A 30mA
WRM63/2	Double Pole RCD	63A 100mA
WRM80/2	Double Pole RCD	80A 100mA
WRM100/2	Double Pole RCD	100A 100mA
WRL63/2	Double Pole RCD	63A 300mA
WRL100/2	Double Pole RCD	100A 300mA
WRMT100/2	Double Pole Time Delay RCD	100A 100mA
NHDPDC	Double Pole direct connection	100A



WS123

## NH B BOARD INCOMERS

CAT REF	DESCRIPTION	RATING
WS603	3 Pole 3 module switch	63A
WS103	3 Pole 3 module switch	100A
WS123	3 Pole 3 module switch	125A
WS604	4 Pole 4 module switch*	63A
WS104	4 Pole 4 module switch*	100A
WS124	4 Pole 4 module switch*	125A
WRS63/4	Four Pole RCD*	63A 30mA
WRS100/4	Four Pole RCD*	100A 30mA
WRM63/4	Four Pole RCD*	63A 100mA
WRM100/4	Four Pole RCD*	100A 100mA
WRL63/4	Four Pole RCD*	63A 300mA
WRL100/4	Four Pole RCD*	100A 300mA
WRMT100/4	Four Pole Time Delay RCD*	100A 100mA
NH4PINKIT	Four Pole Incomer Connection Kit*	100A
NH200TPI	Triple Pole switch disconnect	200A
NHTPDC	Four Pole direct connection	125A
NH200DC	Four Pole direct connection	200A
NHSPAK	Single phase adaptor kit	125A

\* Four Pole DIN Incomers require Incomer connection Kit. REF, NH4PINKIT

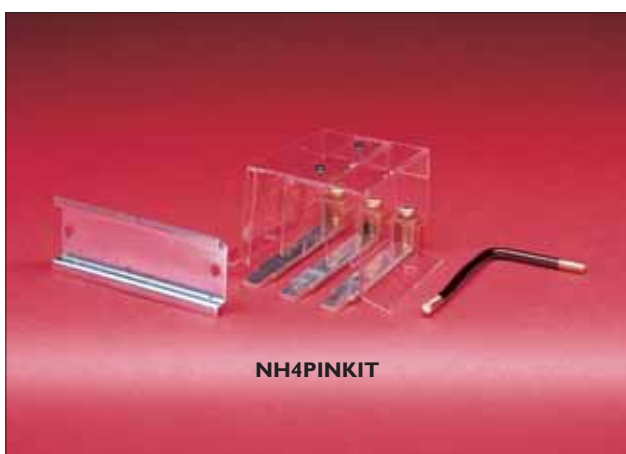


NHAB2

## EXTENSION &amp; ACCESSORY BOXES

CAT REF	DESCRIPTION	DIN MODULES
NHEB	Cable extension box (plain)	
NHEB/DIN	DIN accessory box single row (plain)	
NHAB	DIN accessory box single row	18
NHAB2	DIN accessory box two row	36
NHAB3	DIN accessory box three row	54
NHAB4	DIN accessory box four row	72
NHAB5	DIN accessory box five row	90

18 modules per row



NH4PINKIT

## ACCESSORIES

CAT REF	DESCRIPTION
NHEP11	Replacement gland plate
NH00	Way blank
NHB1PP	1 Way busbar & cover blank
3TPBP	9 way busbar & MCB way blank kit
PSBL1	Way blank (single module)
PSBL3	Way blank (3 module)
MCBLDX	Locking device for MCB
WPL	Padlock for MCBLDX
NHPBDL	MCB Board door lock
PDDPL	Doorlock with padlocking device
WDH-1	Document wallet
NHCEKIT	14 terminal clean earth kit
NHCEKIT20	20 terminal clean earth kit



PSB06-B      PSB32-B      PSB63-B

#### SINGLE POLE MCBs

RATING	POLES	B CURVE	C CURVE	D CURVE
6A 6kA	1	NSB06-B	NSB06-C	NSB06-D
10A 6kA	1	NSB10-B	NSB10-C	NSB10-D
16A 6kA	1	NSB16-B	NSB16-C	NSB16-D
20A 6kA	1	NSB20-B	NSB20-C	NSB20-D
32A 6kA	1	NSB32-B	NSB32-C	NSB32-D
40A 6kA	1	NSB40-B	NSB40-C	NSB40-D
50A 6kA	1	NSB50-B	NSB50-C	NSB50-D
63A 6kA	1	NSB63-B	NSB63-C	NSB63-D
6A 10kA	1	PSB06-B	PSB06-C	PSB06-D
10A 10kA	1	PSB10-B	PSB10-C	PSB10-D
16A 10kA	1	PSB16-B	PSB16-C	PSB16-D
20A 10kA	1	PSB20-B	PSB20-C	PSB20-D
32A 10kA	1	PSB32-B	PSB32-C	PSB32-D
40A 10kA	1	PSB40-B	PSB40-C	PSB40-D
50A 10kA	1	PSB50-B	PSB50-C	PSB50-D
63A 10kA	1	PSB63-B	PSB63-C	PSB63-D



PSB206-B      PSB232-B

#### TWO POLE MCBs

RATING	POLES	B CURVE	C CURVE	D CURVE
6A 10kA	2	PSB206-B	PSB206-C	PSB206-D
10A 10kA	2	PSB210-B	PSB210-C	PSB210-D
16A 10kA	2	PSB216-B	PSB216-C	PSB216-D
20A 10kA	2	PSB220-B	PSB220-C	PSB220-D
32A 10kA	2	PSB232-B	PSB232-C	PSB232-D
40A 10kA	2	PSB240-B	PSB240-C	PSB240-D
50A 10kA	2	PSB250-B	PSB250-C	PSB250-D
63A 10kA	2	PSB263-B	PSB263-C	PSB263-D



PSB306-B      PSB332-B

#### TRIPLE POLE MCBs

RATING	POLES	B CURVE	C CURVE	D CURVE
6A 6kA	3	NSB306-B	NSB306-C	NSB306-D
10A 6kA	3	NSB310-B	NSB310-C	NSB310-D
16A 6kA	3	NSB316-B	NSB316-C	NSB316-D
20A 6kA	3	NSB320-B	NSB320-C	NSB320-D
32A 6kA	3	NSB332-B	NSB332-C	NSB332-D
40A 6kA	3	NSB340-B	NSB340-C	NSB340-D
50A 6kA	3	NSB350-B	NSB350-C	NSB350-D
63A 6kA	3	NSB363-B	NSB363-C	NSB363-D
6A 10kA	3	PSB306-B	PSB306-C	PSB306-D
10A 10kA	3	PSB310-B	PSB310-C	PSB310-D
16A 10kA	3	PSB316-B	PSB316-C	PSB316-D
20A 10kA	3	PSB320-B	PSB320-C	PSB320-D
32A 10kA	3	PSB332-B	PSB332-C	PSB332-D
40A 10kA	3	PSB340-B	PSB340-C	PSB340-D
50A 10kA	3	PSB350-B	PSB350-C	PSB350-D
63A 10kA	3	PSB363-B	PSB363-C	PSB363-D

For other ratings please contact Wylex technical



NSBS6/1

PSBS32/1

**SINGLE MODULE RCBO - FOR USE IN NH DISTRIBUTION BOARDS**

RATING	POLES			C CURVE
6A	6kA	1	30mA	NSBS6/1
10A	6kA	1	30mA	NSBS10/1
16A	6kA	1	30mA	NSBS16/1
20A	6kA	1	30mA	NSBS20/1
32A	6kA	1	30mA	NSBS32/1
40A	6kA	1	30mA	NSBS40/1
6A	10kA	1	30mA	PSBS6/1
10A	10kA	1	30mA	PSBS10/1
16A	10kA	1	30mA	PSBS16/1
20A	10kA	1	30mA	PSBS20/1
32A	10kA	1	30mA	PSBS32/1
40A	10kA	1	30mA	PSBS40/1
50A	10kA	1	30mA	PSBS50/1



MCBLDX WPL

NH00 NH00PP

NHB1PP

**ACCESSORIES**

CAT REF	DESCRIPTION
MCBLDX	Locking device for MCB/RCBO
WPL	Padlock for MCBLDX
PS00	Way Blank - (2x Half Module)
PSBL3	Way Blank - 3 Module
3TPBP	Blank kit 9 modules & 9 MCB way blank
NH00	Way Blank - 1 Module
NH00PP	Twist Fit 1 module blank
NHB1PP	Busbar & cover blank 1 module



PSBS40/2

**TWO MODULE RCBO - NOT FOR USE IN NH DISTRIBUTION BOARDS**

RATING	POLES			C CURVE
6A	6kA	2	30mA	NSBS6/2
10A	6kA	2	30mA	NSBS10/2
16A	6kA	2	30mA	NSBS16/2
20A	6kA	2	30mA	NSBS20/2
32A	6kA	2	30mA	NSBS32/2
40A	6kA	2	30mA	NSBS40/2
6A	10kA	2	30mA	PSBS6/2
10A	10kA	2	30mA	PSBS10/2
16A	10kA	2	30mA	PSBS16/2
20A	10kA	2	30mA	PSBS20/2
32A	10kA	2	30mA	PSBS32/2
40A	10kA	2	30mA	PSBS40/2

For use in DIN Enclosures EG: NH ED Range or + Units



MESB-40NO

**DIN RAIL MODULAR DEVICES**

CAT REF	PRODUCT	MODULE
MDT2	Digital Timeclock 1 channel 1xNO/NC Contact 16A	1
MSTT-111	Digital Timeclock 1 channel 1xNO Contact 16A	1
MSTT-227	Digital Timeclock 2 channel	2
MESB-20NO	20A DP Contactor	1
MESB-24NO	24A 4 Pole Contactor	2
MESB-40NO	40A 4 Pole Contactor	3
MESB-63NO	63A 4 Pole Contactor	3

For use in DIN Enclosures EG: NH ED Range or + Units



# NH125 MCCB PANELBOARDS

NH MCCB Panel Boards offer 250A or 400A fault rated, fully shrouded busbar systems in a modular enclosure system.

The 630mm wide enclosure system combined with MCCBs and a range of accessories, provides a competent flexible main or sub-main distribution board.

- MCCBs with 25kA fault breaking capacity
- 25A-125A ratings
- 70mm<sup>2</sup> cable clamp terminals or 10mm flat bar
- Full Range of accessories including sealable terminal covers
- Fully shrouded bus bars
- Excellent access to N/E bars for cabling
- Full or partial lockable doors
- Fully conforms with BSEN 60943-1 form 2





**NHPB6SW250**

**250A SWITCH DISCONNECTER INCOMER**

	OUTGOING WAYS	MODULAR HEIGHT	HEIGHT (mm)	CAT REF
250A	6	17	902	NHPB6SW250
	8	17	902	NHPB8SW250
	12	20	1060	NHPB12SW250

- BSEN 60439
- 250A Busbars
- Busbar fault rated 25kA-1 sec
- IP31 (41 with door) Ingress Protection
- Earth and neutral terminals for each SP way
- 630mm wide x 165mm deep
- 120 mm<sup>2</sup> 4 Core Max on Incoming Terminals
- 70 mm<sup>2</sup> 4 Core Max on Outgoing Terminals
- Fully assembled
- Complete with incomer
- Also available excluding incomer for direct connection applications



**NHPB6CB200**

**200A MCCB INCOMER**

	OUTGOING WAYS	MODULAR HEIGHT	HEIGHT (mm)	CAT REF
200A	6	17	902	NHPB6CB200
	8	17	902	NHPB8CB200
	12	20	1060	NHPB12CB200

- BSEN 60439
- 250A Busbars
- Busbar fault rated 25kA-1 sec
- IP31 (41 with door) Ingress Protection
- Earth and neutral terminals for each SP way
- 630mm wide x 165mm deep
- 120 mm<sup>2</sup> 4 Core Max on Incoming Terminals
- 70 mm<sup>2</sup> 4 Core Max on Outgoing Terminals
- Fully assembled
- Complete with incomer



**NHFDK17**

**DOOR KITS**

PANELBOARD	MODULAR HEIGHT	CAT REF
6/8 way	17	NHFHDK17
12 way	20	NHFHDK20
Door lock		NHPBDL

**ACCESSORY BOXES**

PANELBOARD	MODULAR HEIGHT	HEIGHT (mm)	CAT REF
Cable Spreader Box	4	210	NHCSB
DIN Accessory Box			NHGAB
A Board 13 way			NHG13DB



All NH Panelboard enclosures are 630mm wide x 165mm deep x modular height  
1 Module = 52.5mm. Colour finish RAL 7035



NHPB6SW400

## 400A SWITCH DISCONNECTOR INCOMER

	OUTGOING WAYS	MODULAR HEIGHT	HEIGHT (mm)	CAT REF
400A	6	20	1060	NHPB6SW400
	8	20	1060	NHPB8SW400
	12	23	1217	NHPB12SW400
	16	26	1375	NHPB16SW400

- BSEN 60439
- 400A Busbars
- Busbar fault rated 25kA–1 sec
- IP31 (41 with door) Ingress Protection
- Earth and neutral terminals for each SP way
- 630mm wide x 165mm deep
- 240 mm<sup>2</sup> 4 Core Max on Incoming Terminals
- 70 mm<sup>2</sup> 4 Core Max on Outgoing Terminals
- Fully assembled
- Complete with incomer
- Also available excluding incomer for direct connection applications



NHPB6CB400

## 400A MCCB INCOMER

	OUTGOING WAYS	MODULAR HEIGHT	HEIGHT (mm)	CAT REF
400A	6	20	1060	NHPB6CB400
	8	20	1060	NHPB8CB400
	12	23	1217	NHPB12CB400
	16	26	1375	NHPB16CB400

- Conforms to BSEN 60439
- 400A Busbars
- Busbar fault rated 25kA–1 sec
- IP31 (41 with door) Ingress Protection
- Earth and neutral terminals for each SP way
- 630mm wide x 165mm deep
- 240 mm<sup>2</sup> 4 Core Max on Incoming Terminals
- 70 mm<sup>2</sup> 4 Core Max on Outgoing Terminals
- Fully assembled
- Complete with incomer



NHFHDK20

## DOOR KITS

PANELBOARD	MODULAR HEIGHT	CAT REF
6/8 way	20	NHFHDK20
12 way	23	NHCBDK12
		NHCBDK11
16 way	26	NHCBDK15
		NHCBDK11
Door lock		NHPBDL

## EXTENSION BOXES

PANELBOARD	MODULAR HEIGHT	HEIGHT (mm)	CAT REF
Cable Spreader Box	4	210	NHCSB
DIN Accessory Box			NHGAB
A Board 13 way			NHG13DB





NHGPCB1001

**NH SINGLE POLE MCCBS**

- Conforms to BSEN 60947-2
- 16kA Icu at 240V ac
- Fixed magnetic
- Fixed thermal
- Double insulated
- Terminal Capacity 70mm<sup>2</sup>

RATING

CAT REF

25A	NHGPCB251
32A	NHGPCB321
40A	NHGPCB401
50A	NHGPCB501
63A	NHGPCB631
80A	NHGPCB801
100A	NHGPCB1001
125A	NHGPCB1251



NHGPCB633

**NH THREE POLE MCCBS**

- Conforms to BSEN 60947-2
- 25kA Icu at 415V ac
- Fixed magnetic
- Fixed thermal
- Double insulated
- Large range of accessories
- Terminal Capacity 70mm<sup>2</sup>

RATING

CAT REF

25A	NHGPCB253
32A	NHGPCB323
40A	NHGPCB403
50A	NHGPCB503
63A	NHGPCB633
80A	NHGPCB803
100A	NHGPCB1003
125A	NHGPCB1253



NHCB1TS

NHCB3TS

**NH MCCBs ACCESSORIES**

DESCRIPTION

CAT REF

70mm Terminal adaptor (2x25 to 1x70mm)	NHPBN25/70
Dolly and padlocking facility	NHPCBLDX
Padlock to fit	NHPCBPL
1P Terminal Shroud	NHPCB1TS
3P Terminal Shroud	NHPCB3TS

AUXILIARY EQUIPMENT

Auxiliary Contacts	
1 x n.o./n.c. Volt Free	NHPCBAU1
2 x n.o./n.c. Volt Free	NHPCBAU2
MCB Blanking kit 3x TP Ways	3TPBP

# NH FUSE-COMBINATION UNITS

NH Fuse combination units are designed with features that ensure full compliance with EN60947 while also providing an economical and high quality range of industrial switchgear products.

With ratings from 20A to 200A and a choice of single pole or three pole configurations, NH fuse combination units have a utilisation category of AC23A, and fused short circuit capacity of 80kA.

- Robust steel enclosures with cable glanding plate supplied top and bottom
- Removable door opens through 180° for ease of access
- Easy access fuse link fixings
- Fully rated neutral
- Fully shrouded terminals
- Handle padlocking facility locks switch & door in off position
- Large cable terminal capacity
- Ingress protection to IP4X
- Positive indication of On and Off





NHSPSF32

NH FUSE COMBINATION UNIT 20A-32A

20A	SP&N TP&N	supplied with 20A fuses	NHSPSF20 NHTPSF20
32A	SP&N TP&N	supplied with 32A fuses	NHSPSF32 NHTPSF32



NHTPSF63

NH FUSE COMBINATION UNIT 63A-125A

63A	SP&N TP&N	supplied with 63A fuses	NHSPSF63 NHTPSF63
100A	SP&N TP&N	supplied with 100A fuses	NHSPSF100 NHTPSF100
125A	TP&N	supplied with 125A fuses	NHTPSF125
Accessories			
63A	Copper Isolator Link		NHCIL2
100A & 125A	Copper Isolator Link		NHCIL3
63A 100A & 125A	Cable Spreader Box		NHCSB2



NHTPSF160

NH FUSE COMBINATION UNIT 160A-400A

160A	TP&N	no fuses supplied	NHTPSF160
200A	TP&N	no fuses supplied	NHTPSF200
315A	TP&N	no fuses supplied	NHTPSF315
400A	TP&N	no fuses supplied	NHTPSF400
Accessories			
160A & 200A	Copper Isolator Links		NHCIL3
160A & 200A	Cable Spreader Box		NHCSB3
315A & 400A	Copper Isolator Links		NHCIL4
315A & 400A	Cable Spreader Box		NHCSB4

Fuse Combination Units Technical Specification  
 EN 60947-3 IEC 947-3  
 80kA RMS Fused Short Circuit Capacity AC23A Utilisation Category  
 415V ac Rated Voltage Full Uninterrupted Duty



NH SW63X

NH ISOLATOR SWITCHES STEEL ENCLOSURE

RATING	BOX SIZE	TP&N/SP&N
20A	1	NHSW320
32A	1	NHSW332
40A	1	NHSW340
63A	1	NHSW363
63A	2	NHSW363X
100A	2	NHSW3100
125A	2	NHSW3125

Spreading Room is allowed for at one end only. To fit a 4 core cable at both ends an additional Cable spreader box will be required.  
 Above 22mmV cable lugs terminal interphase barriers are required. 1 Module=52.5mm. Contact Wylex Technical Services department for details.









WYLEX

SWITCH OFF  
BEFORE  
HANDLING  
FUSES

WYLEX

B16 ON

B32 ON

3000 OFF  
240V~ CE

3000 OFF  
240V~ CE

BSEN60898

BSEN60898



104

**INSULATED-SWITCH FUSE**

CAT REF	CURRENT RATING	NO. OF WAYS
104	45A	1
108	60A	1
160C	60A	1

\*'C' models supplied with cartridge fuse



204

**INSULATED-MAIN SWITCH ISOLATOR**

CAT REF	ISOLATOR RATING	NO. OF WAYS
204	45A	2
304	60A	3
404	60A	4
604	100A	6
804	100A	8



160CM

110M

**METAL-SWITCH FUSE**

CAT REF	CURRENT RATING	NO. OF WAYS
106	45A	1
106RED	45A	1
108M	60A	1
160CM*	60A	1
110M/63*	63A	1
110M/80*	80A	1
110M*	100A	1

\*Supplied complete with cartridge fuse



106

206

**METAL-MAIN SWITCH ISOLATOR**

CAT REF	ISOLATOR RATING	NO. OF WAYS
206	45A	2
306	45A	3
406	60A	4
606	100A	6





**MCBs**

CAT REF	CURRENT RATING	CONTACT SHIELD COLOUR
B6	6A	WHITE
B10	10A	GREY
B16	16A	BLUE
B20	20A	YELLOW
B32	32A	RED
B40	40A	ORANGE



**CARTRIDGE FUSES (Including contact shield)**

CAT REF	CURRENT RATING	CONTACT SHIELD COLOUR
C5	5A	WHITE
C15	15A	BLUE
C20	20A	YELLOW
C30	30A	RED
C35	35A	ORANGE
C40	40A	ORANGE
C45	45A	GREEN

CAT REF	CURRENT RATING
L45	45A } for use with 108, 145 & 160
L60	60A } type switch fuses

**CARTRIDGE FUSE LINKS**

CAT REF	CURRENT RATING	CONTACT SHIELD COLOUR
CFL5	5A	WHITE
CFL10	10A	BLUE
CFL15	15A	BLUE
CFL20	20A	YELLOW
CFL30	30A	RED
CFL35	35A	ORANGE
CFL40	40A	ORANGE
CFL45	45A	GREEN



**REWIRABLE FUSES**

CAT REF	CURRENT RATING	CONTACT SHIELD COLOUR
R5	5A	WHITE
R15	15A	BLUE
R20	20A	YELLOW
R30	30A	RED

**CARTRIDGE FUSE LINKS**

CAT REF	CURRENT RATING
LFL45	45A
LFL60	60A
LFL63	63A
LFL80	80A
LFL100	100A

for use with 108 or 108M  
for use with 110M units only



**ACCESSORIES**

CAT REF	DESCRIPTION
FC	Spare cartridge fuse container
FWC	Fusewire card 1m 5A, 15A, 30A
M10	Blank shield for unused ways



L

**RCD**

100A 30mA  
WRS100/2

ON  
OFF

L

**RCD**

32A 30mA  
WRS32/2

ON  
OFF

L

**RCD**

80A 30mA  
WRS80/2

ON  
OFF

HYLES  
WRS



# LIFELINE RANGE

The Lifeline range of residual current devices, rcd's provides valuable additional protection to almost any type of installation by detecting earth fault current below the level sensed by traditional overcurrent devices such as fuses or miniature circuit breakers.

One of the largest ranges available in the UK today offers other features which include:-

- Fully shrouded terminals
- Contact position indication on the dolly handle
- Both Type AC and Type A (DC sensitive) devices available
- A range of enclosures from IP20 upto IP65
- Time delay versions available in 2 and 4 pole configurations







WRS32/2

WRS80/2



WRS100/2

WRM100/2



WRS63/4



WRM100/4

**2 POLE RCDs – TYPE AC**

CAT REF	RATED CURRENT	SENSITIVITY
WRS16/2	16A	30mA
WRS25/2	25A	30mA
WRS32/2	32A	30mA
WRS40/2	40A	30mA
WRM40/2	40A	100mA
WRS63/2	63A	30mA
WRM63/2	63A	100mA
WRL63/2	63A	300mA
WRS80/2	80A	30mA
WRM80/2	80A	100mA
WRS100/2	100A	30mA
WRM100/2	100A	100mA
WRL100/2	100A	300mA

**2 POLE RCDs DC SENSITIVE – TYPE A**

CAT REF	RATED CURRENT	SENSITIVITY
WRDVS16/2	16A	10mA
WRDVS32/2	32A	10mA
WRDS40/2	40A	30mA
WRDM40/2	40A	100mA
WRDS63/2	63A	30mA
WRDS80/2	80A	30mA
WRDS100/2	100A	30mA
WRDM100/2	100A	100mA

**4 POLE RCDs – TYPE AC**

CAT REF	RATED CURRENT	SENSITIVITY
WRS32/4	32A	30mA
WRS40/4	40A	30mA
WRM40/4	40A	100mA
WRS63/4	63A	30mA
WRM63/4	63A	100mA
WRL63/4	63A	300mA
WRS100/4	100A	30mA
WRM100/4	100A	100mA
WRL100/4	100A	300mA

**4 POLE RCDs DC SENSITIVE – TYPE A**

CAT REF	RATED CURRENT	SENSITIVITY
WRDS40/4	40A	30mA
WRDM40/4	40A	100mA
WRDS63/4	63A	30mA
WRDM63/4	63A	100mA
WRDS100/4	100A	30mA
WRDM100/4	100A	100mA

**TIME DELAY UNITS (100ms)**

CAT REF	DESCRIPTION	RATED CURRENT	SENSITIVITY
WRMT100/2	2P	100A	100mA
WRMT100/4	4P	100A	100mA



ESE2

ESE4

### DIN ENCLOSURES

DIN MODULES	IP RATING	CAT REF INSULATED	CAT REF METAL
2	IP40	ESE2	ESM6
2	IP40	ESE2L*	-
2	IP54	-	ESM7
4	IP20	ESE4	-
4	IP40	ESi4	ESM8
4	IP54	-	ESM11
4	IP54	-	ESM13**

\* Supplied with earth connection link

\*\* Larger enclosure for larger cables



WBE4/NK installed in WBE4

### IP65 DIN ENCLOSURES AND ACCESSORIES

CAT REF	DESCRIPTION
WBE3	2/3 module enclosure
WBE4	4 module enclosure
WBE3/EK	Earth block
WBE3/NK	Neutral block
WBE4/EK	Earth block
WBE3/NK	Neutral block
WBE/BS	Blanks
WME/FB	Wall mounting plate



NH10ED4

### NH INSULATED DIN ENCLOSURES

CAT REF	DESCRIPTION
NH4ED4	4 modules
NH7ED4	7 modules
NH10ED4	10 modules
NH13ED4	13 modules
NH16ED4	16 modules
NH21ED4	21 modules

Supplied with earth & neutral terminal bars cover and visor



NH13ED6

### NH METAL DIN ENCLOSURES

CAT REF	DESCRIPTION
NH4ED6	4 modules
NH7ED6	7 modules
NH10ED6	10 modules
NH13ED6	13 modules
NH16ED6	16 modules
NH21ED6	21 modules

Supplied with earth & neutral terminal bars cover and visor

# SWITCH DISCONNECTORS & ISOLATORS

Wylex provide a range of isolators designed for applications where local isolation is required. The modular WS range of switches can be independently configured to provide a variety of live and neutral arrangements up to 4 poles.

In addition Wylex offer a range of enclosed switch disconnecter isolators suitable for commercial and industrial applications up to 125A.

Rotary isolators can be locked in the off position and have facility for up to 3 padlocking devices for added safety and security.







921E

**TRIPLE POLE & NEUTRAL 415V, 50HZ AC**

CAT REF	DESCRIPTION	CURRENT RATING
921E	With switched neutral, surface mounting in a metal enclosure	32A
921X	With switched neutral, for loose mounting in an enclosure (Non DIN)	32A



NHSW63X

**NH ISOLATOR SWITCHES STEEL ENCLOSURE**

RATING	BOX SIZE	TP&N/SP&N
20A	1	NHSW320
32A	1	NHSW332
40A	1	NHSW340
63A	1	NHSW363
63A	2	NHSW363X
100A	2	NHSW3100
125A	2	NHSW3125



REC2S

REC4

**SUPPLY AUTHORITY ISOLATOR ASSEMBLIES**

CAT REF	DESCRIPTION	CURRENT RATING
REC2S	Enclosure	100A
REC2	DP Isolator & 4 Mod Enclosure	100A
REC3	TP Isolator & 4 Mod Enclosure	100A
REC4	4P Isolator & 4 Mod Enclosure	100A

A wide range of custom built variations is also available. Contact Wylex Technical for full details.



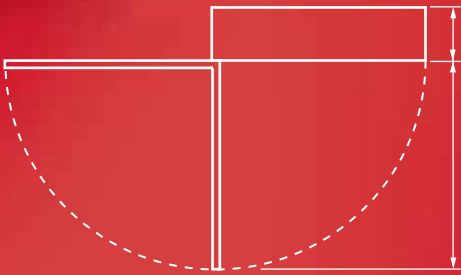
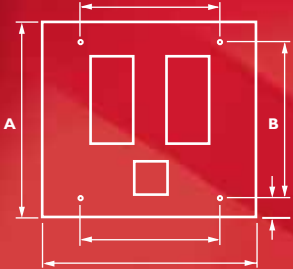
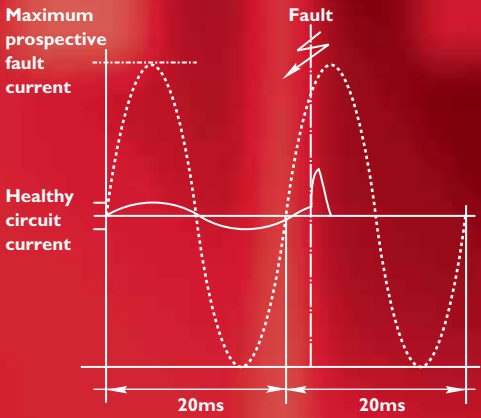
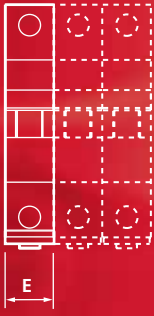
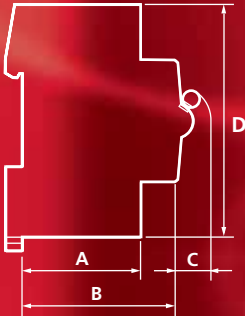
WS102

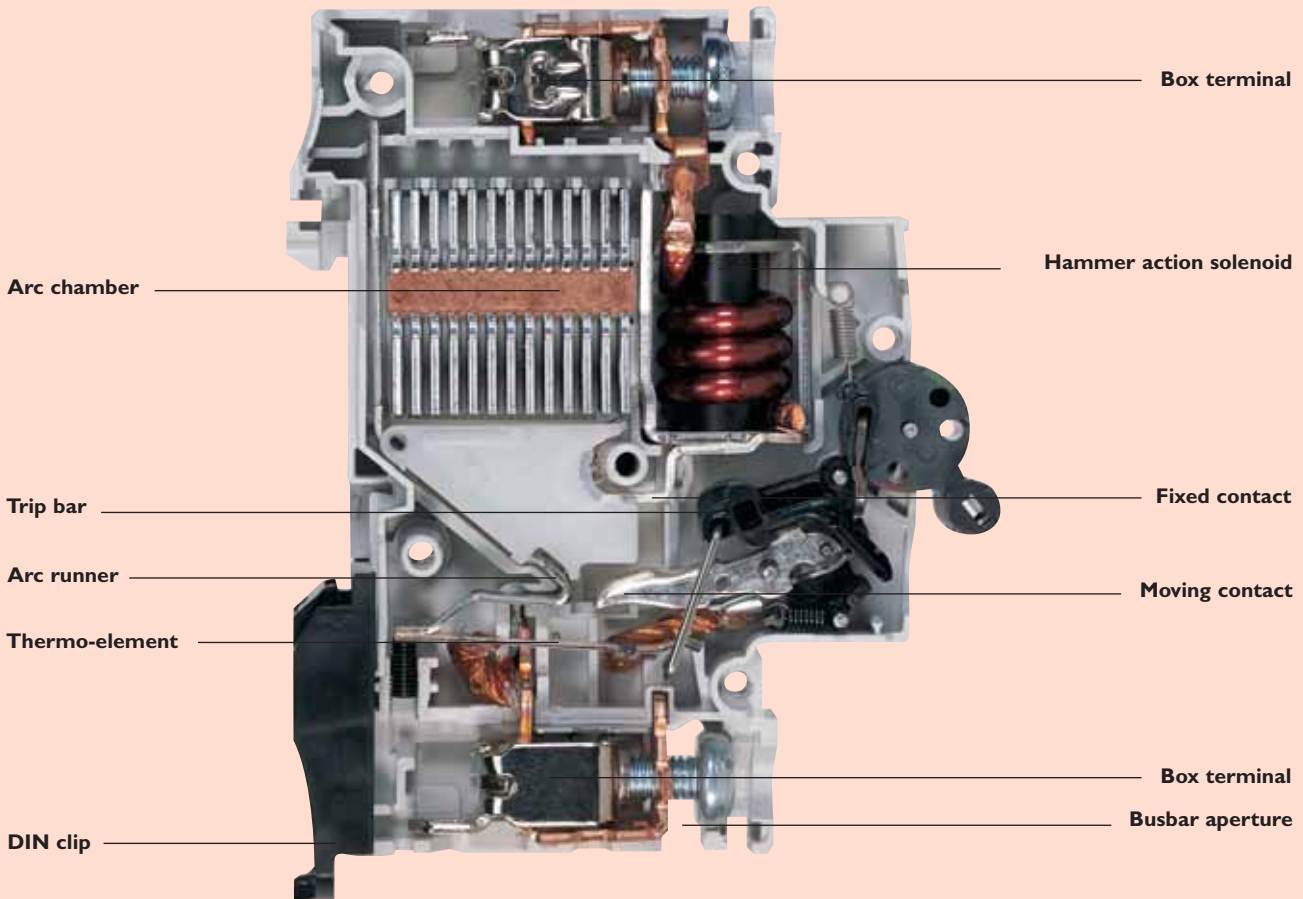
WS104

**WS RANGE OF MODULAR ISOLATORS**

CAT REF	DESCRIPTION	CURRENT RATING
WS601	1 Pole, 1 module	63A
WS101	1 Pole, 1 module	100A
WS121	1 Pole, 1 module	125A
WS602	2 Pole, 2 module	63A
WS102	2 Pole, 2 module	100A
WS122	2 Pole, 2 module	125A
WS603	3 Pole, 3 module	63A
WS103	3 Pole, 3 module	100A
WS123	3 Pole, 3 module	125A
WS604	4 Pole, 4 module	63A
WS104	4 Pole, 4 module	100A
WS124	4 Pole, 4 module	125A

# TECHNICAL DATA & DIMENSIONS





**GENERAL CONSTRUCTION**

Wylex MCBs are of the thermal-magnetic current limiting type, having a compact construction which has been achieved by not only minimising the number of parts but also the number of welded joints and connections. Critical material selection ensures reliability and durability. Typical of this is the choice of silver graphite for the fixed contact.

The MCB has an easy to operate handle with a trip-free toggle mechanism – so even when the handle is held in the ‘on’ position the MCB is free to trip.

**AMBIENT TEMPERATURE CONSIDERATIONS**

Wylex MCBs are calibrated to meet the requirements of BS EN 60898, 30°C Ref Calibration Temperature.

At other temperatures the following rating factors should be used:

At 60°C 0.9      At 20°C 1.0      At 0°C 1.1

Adjacent thermal-magnetic MCBs should not be continuously loaded at or approaching their nominal rated currents when mounted in enclosures. It is good engineering practice to apply generous derating factors or make provision for adequate free air between devices.

In these situations, and in common with other manufacturers, we recommend a 66% diversity factor is applied to the MCB nominal rated current where it is intended to load the MCBs continuously (in excess of 1 hour).

**METHOD OF OPERATION**

**1 Moderate overload conditions**

Detection of moderate overload conditions is achieved by the use of a thermo-metal element which deflects in response to the current passing through it. The thermo-metal element moves against the trip bar releasing the trip mechanism.

**2 Short circuit conditions**

When the current flowing through the MCB reaches a predetermined level, the solenoid directly pulls in the plunger which forcibly separates the contacts and simultaneously releases the trip mechanism.

**3 Establishment of arc between fixed and moving contacts**

As the moving contact moves away from the fixed contact, an arc is established. The arc runs along the arc runner to the arc chamber where it is split up between the plates and extinguished.

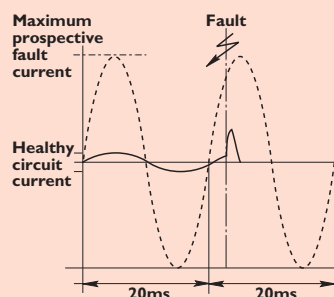
The low inertia and consequent high speed of the moving contact has a limiting effect on the flow of fault current. The rapid development of the arc, together with its accelerated extinction in the arc chamber, gives a typical operating time of 3.5–5 milliseconds.

**CURRENT LIMITING ACTION**

The high speed current limiting action ensures that the MCB operates before the full prospective fault current is allowed to develop.

Under fault conditions, damage can be sustained to the installation and associated equipment due to the amount of energy that passes before the current is completely interrupted. The total energy let-through depends on the value of current and the time for which it flows, and is denoted by the symbol  $I^2t$ . The high speed current limiting action of MCBs ensures that the energy let-through and any subsequent damage is minimised. This reduced energy let-through assists greatly with both back-up and discrimination considerations.

**CURRENT LIMITING EFFECT**



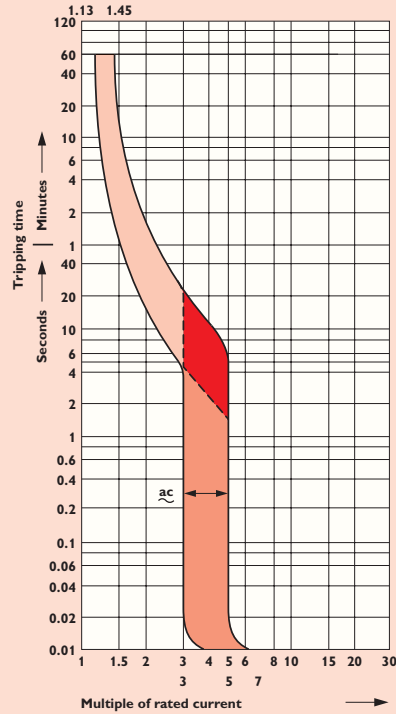


**BACK-UP PROTECTION**

Back-up protection is required only if the prospective short circuit current at the point of installation exceeds the breaking capacity of the MCB. When providing back-up protection consideration must be given to discrimination between the MCB and fuse.

**DISCRIMINATION**

It is desirable that the protective device nearest the fault should operate first. The low energy let through of modern MCBs provides better discrimination with HRC fuse back-up than is given by earlier types of MCBs.

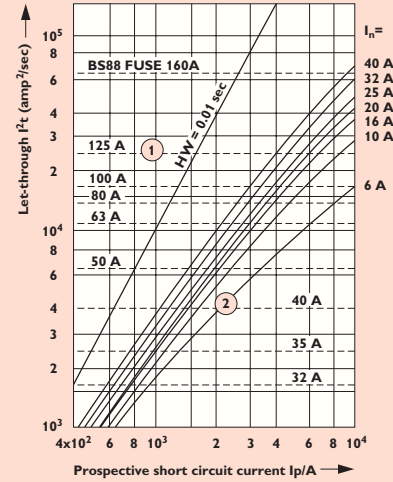


**NSB CONSUMER UNIT MCBs**

British standards  
 Rated voltage (single pole)  
 Tripping characteristics  
 Short circuit rating  
 Reference calibration temperature  
 Terminal capacity – outgoing cable

BS EN 60898: 1991  
 240V  
 Type B  
 6kA  
 30°C  
 0.75 to 25mm<sup>2</sup>

CAT REF	RATING
NSB06	6A
NSB10	10A
NSB16	16A
NSB20	20A
NSB32	32A
NSB40	40A
NSB50	50A



- 1 min melting pt (pre-arching)  
eg  $I_n=125A$  BS 88
- 2 max let-through  $I^2t$  of MCB  
eg 6A

**NSB AND PSB DISTRIBUTION BOARD MCBs**

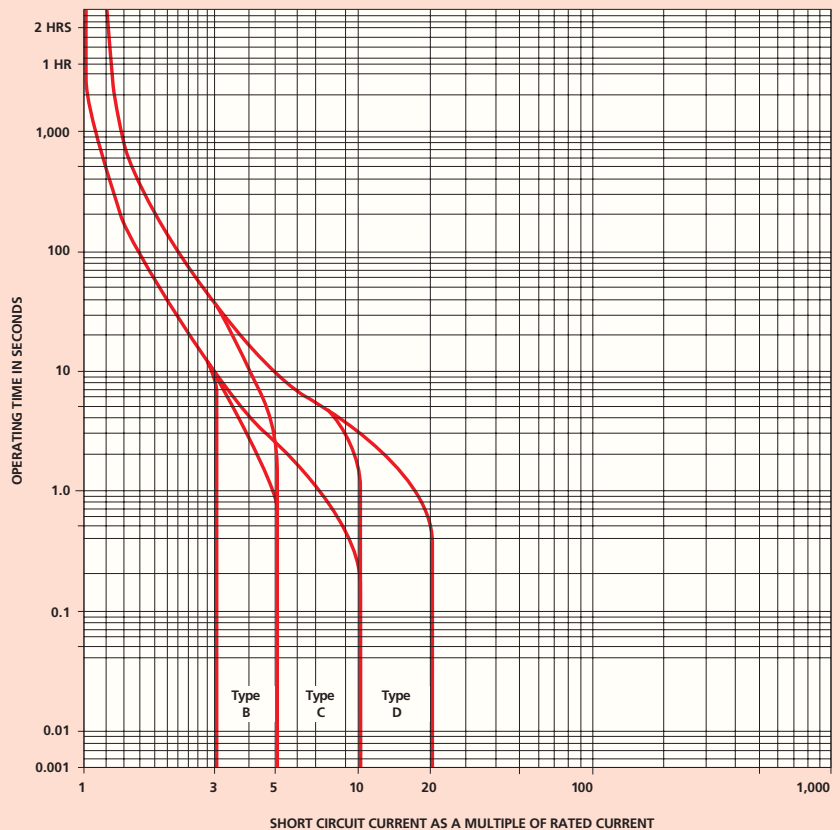
British Standards BSEN 60898 - 1991  
 Rated Voltage 230/400 Volts  
 Tripping characteristics Type B, C and D  
 Short circuit rating 6kA and 10kA  
 Reference calibration temperature 30°C  
 Terminal capacity - outgoing cable 0.75 to 25mm<sup>2</sup>

**NSBS & PSBS RCBO (COMBINED MCB/RCD)**

British Standards BSEN 61009  
 Rated Voltage 230 Volts  
 SP or SP with switched neutral  
 Tripping characteristics Type C  
 Short circuit rating 6kA and 10kA  
 Reference calibration temperature 30°C  
 Rated residual operating current 30mA  
 Single module Type A  
 Two module Type AC  
 Terminal capacity - outgoing cable 0.5 to 16mm<sup>2</sup>

Unique live side busbar combi-terminal allows connection of cable up to 25mm<sup>2</sup>

Maximum neutral cable size 25mm<sup>2</sup>





**OPERATION**

The RCD employs the current balance principle which involves the supply conductors to the load (phase and neutral) being wound onto a common transformer core to form the primary windings. Under healthy circuit conditions, the current in the phase conductor is equal to the current in the neutral, and the vector sum of the current is zero. In the event of an earth fault, an amount of current will flow to earth, creating an out of balance situation in the transformer assembly. This out of balance is detected by the secondary winding of the transformer and at a pre-determined level of out of balance will activate the trip mechanism. Single phase and neutral or three phase and neutral units (suitable for 3 or 4 wire systems) are available, the latter being suitable for balanced or unbalanced 3 phase loads. The RCD trip mechanism will operate at a residual current of between 50–100% of its rating tripping current (sensitivity).

**TRANSIENT EARTH LEAKAGE CURRENTS**

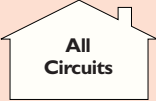

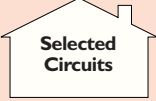

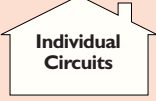





All Wylex residual current devices incorporate a high level of immunity to tripping when subjected to transient earth leakage currents. Such transients can occur when there is a significant level of capacitance to earth as can result from cable capacitance (particularly MICC) or RF filter networks. Wylex RCDs are therefore less susceptible to nuisance tripping due to transient earth leakage currents.

**RESIDUAL TRIPPING CURRENTS**

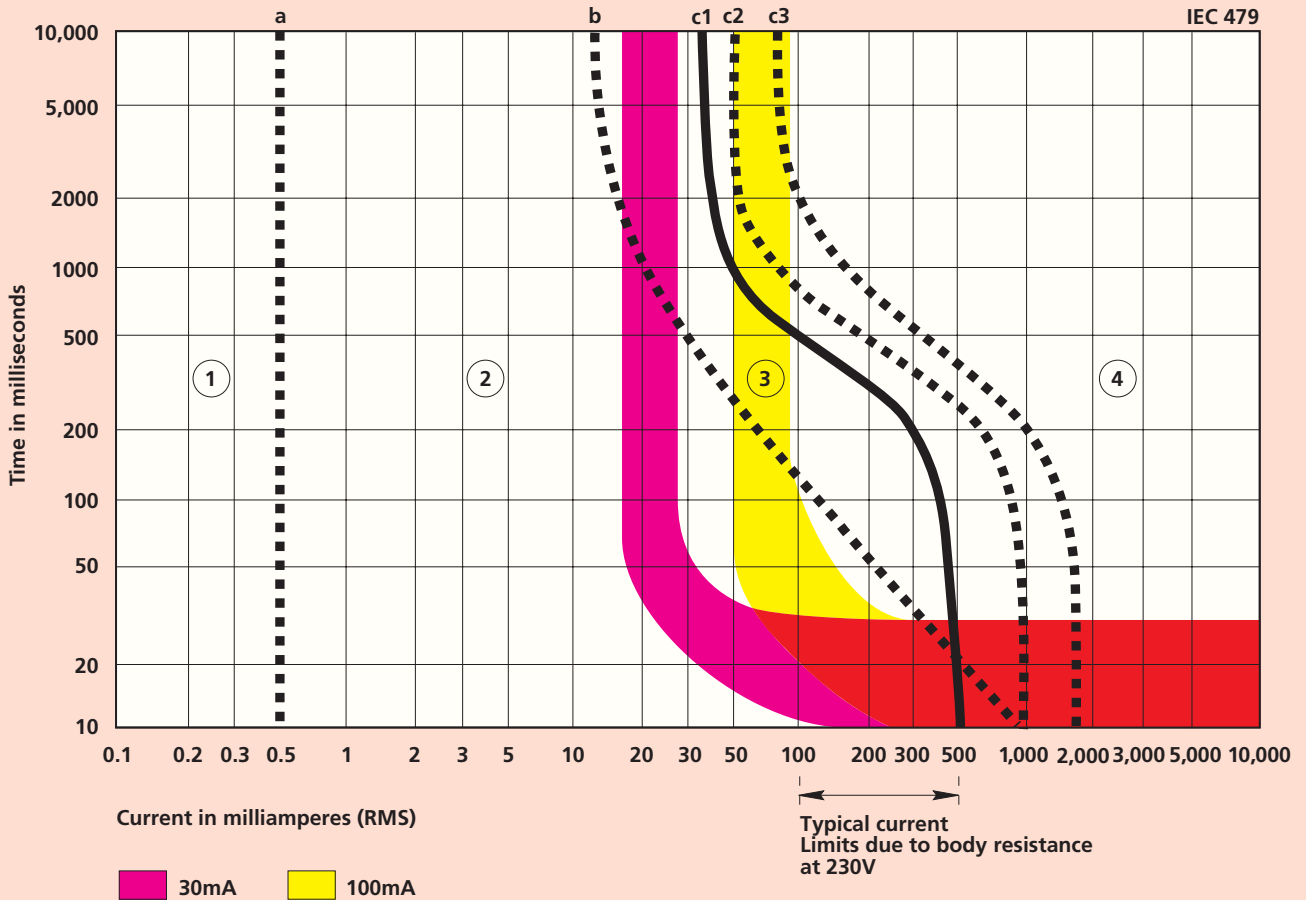
- 10mA**  
Used in special applications where additional protection against contact is essential due to the nature of the installation.
- 30mA**  
Tripping current designated by the IEE Wiring Regulations to provide additional protection against direct contact shock, ie socket outside the equipotential zone. TT systems, caravan installation, etc.
- 100mA**  
Suitable for use against indirect contact shock or where protection is provided to guard against firehazard, etc, rather than to provide additional protection to personnel, and where the earthing requirements need supplementing by RCD protection.
- 100mA time delay**  
Suitable for use when total RCD protection is required to supplement the system earthing and where local 30mA RCDs are used to give additional protection against direct contact. The time delay RCD will discriminate with the 30mA RCD.
- 300mA**  
For use in large installations where plant and equipment protection are the main considerations and high levels of earth leakage are experienced.

**APPLICATION GUIDE FOR RESIDUAL CURRENT DEVICES**

A test button is provided on all RCDs to enable the operation of the device to be checked. It is recommended that an RCD is tested regularly. (See BS 7671 Regulation 514-12-02).

Scope of Protection	Application Method	Type
 All Circuits	 RCCB controlled consumer unit	RCCB
 Selected Circuits	 Split load consumer unit	RCCB
 Individual Circuits	 Consumer unit with RCBO controlling individual circuit SP or DP option available	RCBO
 Individual Socket Outlets	 Combined RCD / socket outlet	SRCD
 Individual Appliances	 Combined RCD / adaptor	PRCD

TIME/CURRENT ZONES OF EFFECT OF AC CURRENT (15–100Hz) ON PERSONS



Zone Physiological effects

- 1 Usually no reaction effects.
- 2 Usually no harmful physiological effects.
- 3 Usually no organic damage to be expected. Likelihood of muscular contraction and difficulty of breathing, reversible disturbances of formation and conduction of impulses in the heart, and transient cardiac arrest without ventricular fibrillation increases with current magnitude and time.
- 4 In addition to the effects of zone 3, probability of ventricular fibrillation increased up to 5% (Curve C2), up to 50% (Curve C3) and above 50% beyond Curve C3. Increasing with magnitude and time, pathophysiological effects such as cardiac arrest, breathing arrest and heavy burns may occur.

FAULT CURRENT SENSITIVITY

Semi-conductor devices are now incorporated in equipment used throughout industry, commerce and in the home. Typically, the purpose of these semi-conductor devices is for monitoring and controlling industrial equipment, eg speed controls for small motors and temperature controls, along with extensive use in computers, VDUs, printers, washing machines, etc.

As the equipment is fed from the mains electrical supply, in the event of an earth fault the presence of semi-conductors may result in the normal ac waveform being replaced by a non-sinusoidal fault current. In some cases the waveform may be rectified or chopped. These waveforms are said to contain a pulsating dc component which can either partially desensitise or totally disable a standard Type AC RCD. New International standards IEC 1008 (RCCBs) and IEC 1009 (RCBOs) divide RCDs into two performance classes:

Type AC

RCDs for which tripping is ensured for residual sinusoidal alternating currents, whether suddenly applied or slowly arising.

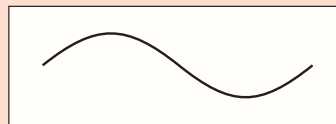
Type A

RCDs for which tripping is ensured for residual sinusoidal alternating currents and residual pulsating direct currents, whether suddenly applied or slowly arising.

To ensure the correct level of protection, check for the following symbols:

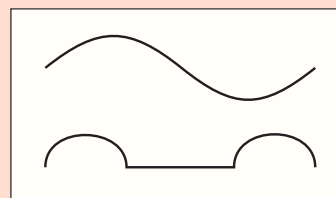
TYPE AC

normal ac sensitivity



TYPE A

pulsating dc sensitivity



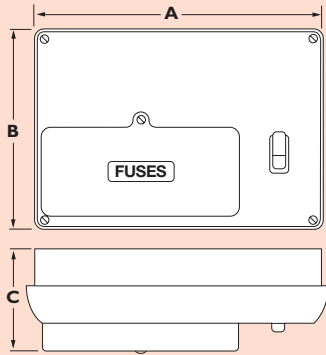
Wylex RCDs are available as both Type AC and Type A devices.





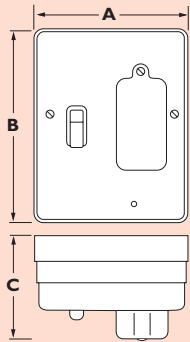


STANDARD RANGE



INSULATED-MAIN SWITCH ISOLATOR

CAT REF	DIMENSIONS		
	A	B	C
204	125	120	70
304	190	155	95
404	190	155	95
604	272	186	103
804	323	186	103



METAL-MAIN SWITCH ISOLATOR

CAT REF	DIMENSIONS		
	A	B	C
104	98	121	68
108/160/145	143	178	99
206	140	131	93
306	210	153	99
406	210	153	99
606	293	210	104

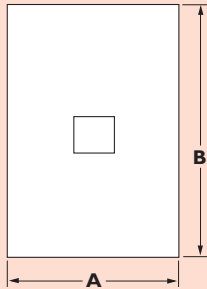
METAL-45A AND 60A SWITCHFUSES

CAT REF	DIMENSIONS		
	A	B	C
106	112	131	80
108M	172	242	98

METAL-100A DOUBLE POLE SWITCHFUSE

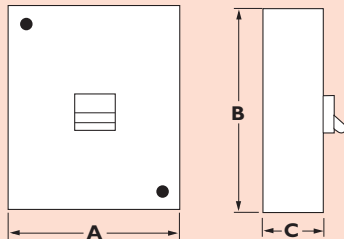
CAT REF	DIMENSIONS		
	A	B	C
110M	178	305	76
110M/80	178	305	76
110M/63	178	305	76

ENCLOSURES



CAT REF	IP RATING	DIMENSIONS	
		A	B
ESE2	IP40	60	153
ESE2L	IP20	60	140
WBE3	IP65	85	160
ESI4	IP40	100	150
ESM6	IP40	90	225
ESM7	IP54	90	225
ESE4	IP20	77	140
WBE4	IP65	110	160
ESM11	IP54	120	225
ESM13	IP54	137	318
ESM8	IP40	120	225

ISOLATORS



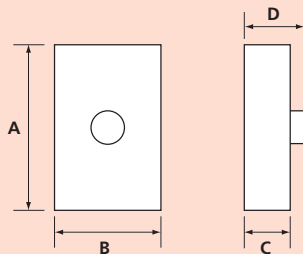
CAT REF	DIMENSIONS			Terminal Capacity
	A	B	C	
832A	62	76	30	10
860A	57	79	29	25
810X	53	94	77	35
810A	58	170	77	35
810E	76	203	76	35

CAT REF	DIMENSIONS			Terminal Capacity
	A	B	C	
910E	178	305	76	70
921X	72	45	48	10
921E	114	133	61	10
REC2S	78	150	65	50
REC2	100	150	65	50
REC3	100	150	65	50
REC4	100	150	65	50

## TECHNICAL INFORMATION

Sheet Steel Enclosure							
<b>RATING IN AMPS</b>	20A	32A	40A	63A	63A*	100A	125A
Rated Insulation Voltage $U_i$ (V)	800	800	800	800	800	800	800
Dielectric Strength (kV) 50 Hz 1min	3	3	3	3	3	3	3
Shock Resistance $U_{imp}$ (kV)	8	8	8	8	8	8	8
<b>OPERATIONAL CURRENT <math>I_e</math> (A)</b>							
415 V AC - AC21A / AC21B	20	32	40	63	80	100	125
AC22A / AC22B	20	32	40	63	80	100	125
AC23A / AC23B	20	32	40	63	80	80	80
500 V AC - AC21A / AC21B	20	32	40	63	80	100	125
AC22A / AC22B	20	32	40	63	80	100	125
AC23A / AC23B	20	32	40	40	63	63	63
690 V AC - AC20A / AC20B	20	32	40	63	80	100	125
AC21A / AC21B	20	32	40	63	80	100	125
AC22A / AC22B	20	32	40	63	80	100	100
AC23A / AC23B	20	25	25	25	50	50	50
<b>MOTOR POWER (KW) AC 23</b>							
415 V AC	7.5	11	11	15	18.5	37	40
500 V AC	7.5	11	15	18.5	22	37	37
690 V AC	11	11	18.5	18.5	25	30	30
<b>FUSE TYPES TO BS88</b>							
<b>OVERLOAD CAPACITY</b>							
Fuse rating gG	20	32	40	63/40	63	100	125
Short circuit current with fuses (kA Rms)	50	50	50	20/50	50	20	15
Asymmetric short time rating current (kA peak)	6	6	6	9	9	9	9
Admissible short time current 1 s. (kA Rms)	1.26	1.26	1.26	1.5	1.5	1.5	1.5
<b>MAKING &amp; BREAKING CHARACTERISTICS</b>							
Breaking capacity (A Rms) 415 V AC 23 A	160	256	320	504	504	640	640
Making capacity (A Rms) 415 V AC 23 A	200	320	400	630	630	800	800
<b>WITHSTAND</b>							
Mechanical (number of operations) x 1000	100	100	100	100	30	30	30
Electrical (number of operations at 415V AC 23A) x 1000	3	3	3	3	1.5	1.5	1.5
<b>CONNECTION</b>							
Maximum Cu cable section (mm <sup>2</sup> ) lth using stranded cable (mm <sup>2</sup> )	16	16	16	16	50	50	50
<b>WEIGHT (KG)</b>							
3 pole	2.00	2.00	2.00	2.00	2.50	2.50	2.50
4 pole	2.00	2.00	2.00	2.00	2.50	2.50	2.50

## DIMENSIONS



### STEEL ENCLOSURES

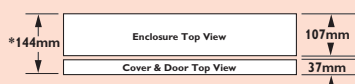
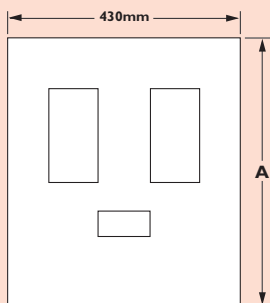
BOX	A	B	C	D
1	220	158	136	172.5
2	325	158	136	172.5

\* Box size 2 steel enclosed switch.

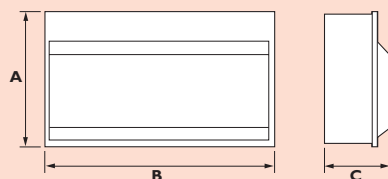
Dimensions are overall including screw heads.

## STANDARDS

Switches	Multipole: 415V 50Hz BSEN 60947-3 1992 Category of duty AC22A
MCBs	BSEN 60898: 1991 Type B, C and D
Short circuit rating	6 & 10kA
Distribution Boards	BS EN 60439-3
Degree of Protection.	For indoor use only (IP3X)



\* including fixing feet which are 3.5mm high



## CONSTRUCTION

Wylex NH MCB distribution board enclosures are fabricated in heavy gauge steel and are rust protected and highly resistant to both weathering and mechanical damage. Incorporated in the distribution boards are multi-terminal dual earth and neutral bars. They are designed for ease of installation and have ample wiring space.

The WYLEX PSB miniature circuit breakers are rated at 10kA and are of the fault limiting type.

When a short circuit occurs, the current operates a solenoid which trips the mechanism and forces the moving contact away from the fixed contact. The arc generated is forced into an arcing chamber which incorporates splitter plates, to divide and cool it, reducing the total operating time to less than 5ms. This high speed operation substantially reduces the 'let through' energy ( $I^2t$ ) keeping additional damage at the point of the fault to a minimum. Additionally this allows discrimination with HRC fuses at high fault levels.

## 125A DISTRIBUTION BOARDS

CAT REF	DIMENSION A mm
NHTN4	488.4
NHTN6	569.4
NHTN8	650.4
NHTN12	812.4
NHTN16	893.4
NHTN20	974.4
NHTN24	1136.4

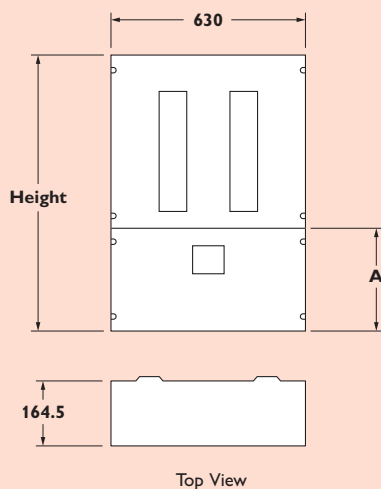
## 200A DISTRIBUTION BOARDS

CAT REF	DIMENSION A mm
NHTN40	650.4
NHTN60	811.8
NHTN80	811.8
NHTN120	992.2
NHTN160	992.2
NHTN200	1208.2
NHTN240	1208.2

## SINGLE PHASE DISTRIBUTION BOARDS

CAT REF	DIMENSIONS A mm B mm C mm		
NHSN5	210	188	105
NHSN8	210	242	105
NHSN11	210	293	105
NHSN14	210	343	105
NHSN16	210	394	105
NHSN19	210	394	105
NH8+3	210	293	105
NH8+6	210	343	105

\* Revised models during 2006.  
Contact Wylex Technical for Dimensions

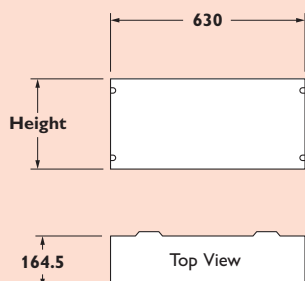


## 200A-250A PANEL BOARDS

MODULAR HEIGHT	HEIGHT (mm)	A (mm)	CAT REF
17	902	420	NHPB6SW250
17	902	420	NHPB8SW250
20	1060	420	NHPB12SW250
17	902	420	NHPB6CB200
17	902	420	NHPB8CB200
20	1060	420	NHPB12CB200

## 400A PANEL BOARDS

MODULAR HEIGHT	HEIGHT (mm)	A (mm)	CAT REF
20	1060	577.5	NHPB6SW400
20	1060	577.5	NHPB8SW400
23	1317	577.5	NHPB12SW400
26	1375	577.5	NHPB16SW400
20	1060	577.5	NHPB6CB400
20	1060	577.5	NHPB8CB400
23	1317	577.5	NHPB12CB400
26	1375	577.5	NHPB16CB400

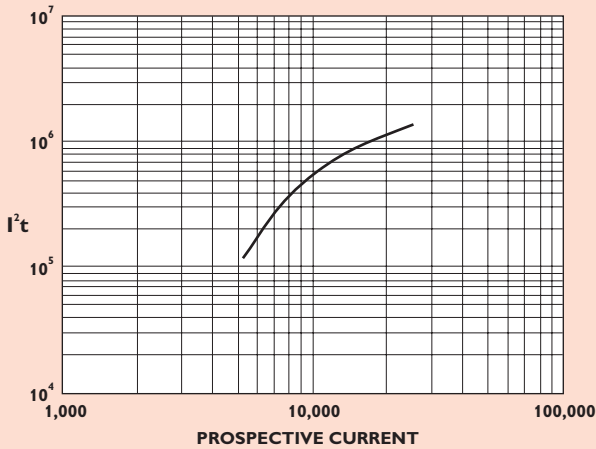


## NH125 MODULAR MCB/DIN ENCLOSURES

MODULAR HEIGHT	HEIGHT (mm)	CAT REF
4	*210	TO ORDER
8	*420	TO ORDER

\* Dimensions for Accessory boxes do not include end plate dimensions, this is because these 2 boxes are add on units and are supplied without end plates. The end plate is removed from the panel board, that is connected to the add on unit. Then fitted to the top of the add on unit.





NHG MCCB SPECIFICATION

- Specification BSEN60947-2
- Current Range 25 – 125A
- Ue Rated Operation Voltage 240V SP 415V TP
- Ui Rated Insulation Voltage 500V AC
- Rated Frequency 50/60Hz
- Release Thermal Magnetic
- Adjustment None
- Ambient Range -20°C to 55°C
- Humidity Range 0 – 90%
- Weight SP - 0.4kg TP - 0.95kg
- Mechanical Duration 8000 operations

SHORT CIRCUIT BREAKING CAPACITY

Type	GB	GN
Ue	Icu	Icu
	SP/TP	TP
220 V	30	30
380 V	16	25
415 V	16	25

Ics = 50% Icu

INSTANTANEOUS TRIP BANDS

	SP	TP
25 – 32A	500A	400A
40 – 80A	800A	600A
100 – 125A	1250A	600A
Non-adjustable		±10%

TERMINALS

Front-connected clamps –  
 25A to 125A – 70mm² cable  
 – 10mm strip

AUXILIARY EQUIPMENT

NHG MCCBs

Auxiliary Contact Ratings (A)

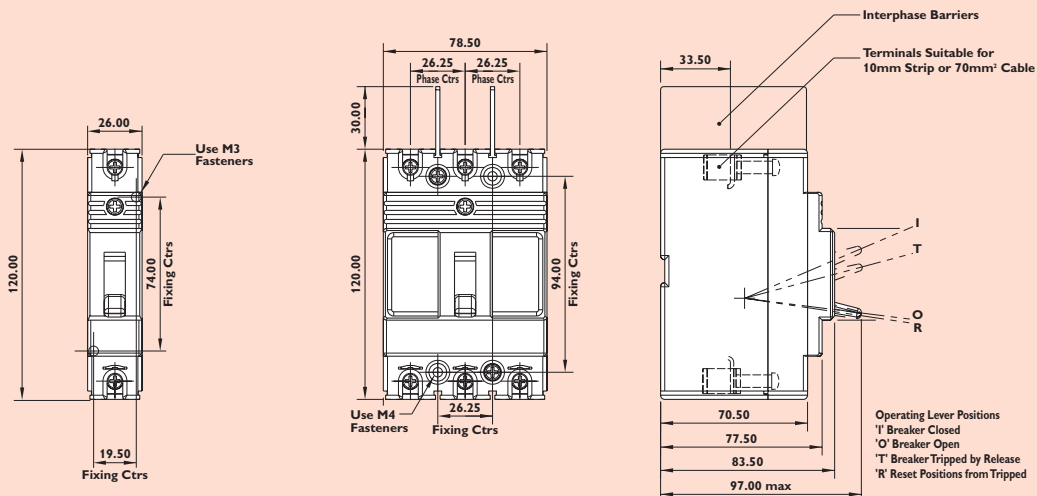
Voltage	Tungsten Load			
	Resistive Load (A)	NC (A)	NO (A)	Inductive Load (A)
<b>AC</b>				
125	3	0.5	0.5	3
250	3	0.5	0.5	3
<b>DC</b>				
30	3	3	0.5	3
50	1	0.7	0.7	1
125	0.5	0.4	0.4	0.05

MAXIMUM EARTH LOOP IMPEDANCES FOR TRIPLE POLE MCCBs Zs (ohms) for Uo = 240V~

Current Rating (A)	25	32	40	50	63	80	100	125
0.4 Seconds Disconnection Time	0.17Ω	0.17Ω	0.13Ω	0.13Ω	0.13Ω	0.13Ω	0.13Ω	0.13Ω
5.00 Seconds Disconnection Time	0.96Ω	0.75Ω	0.60Ω	0.48Ω	0.38Ω	0.30Ω	0.24Ω	0.19Ω

MAXIMUM EARTH LOOP IMPEDANCES FOR SINGLE POLE MCCBs Zs (ohms) for Uo = 240V~

Current Rating (A)	25	32	40	50	63	80	100	125
0.4 Seconds Disconnection Time	0.43Ω	0.43Ω	0.27Ω	0.27Ω	0.27Ω	0.27Ω	0.17Ω	0.17Ω
5.00 Seconds Disconnection Time	0.96Ω	0.75Ω	0.60Ω	0.48Ω	0.38Ω	0.30Ω	0.24Ω	0.19Ω



CONTACTORS

TYPE	POWER (W)	C(yF)	I(A)	MESB-20NO	MESB-24NO	MESB-40NO	MESB-63NO
Incandescent Lamps	60	-	0.26	23	29	65	85
	100	-	0.43	14	16	40	50
	200	-	0.87	7	8	20	25
	500	-	2.17	3	3	8	10
	1000	-	4.35	1	1	4	5
Flourescent Lamps uncorrected and Series correction	18	-	0.37	22	24	90	140
	24	-	0.35	22	24	90	140
	36	-	0.43	17	20	65	95
	58	-	0.67	14	17	45	70
Flourescent Lamps lead-lag circuit	18	-	0.11	2 x 30	2 x 40	2 x 100	2 x 150
	24	-	0.14	2 x 24	2 x 31	2 x 78	2 x 118
	36	-	0.22	2 x 17	2 x 24	2 x 65	2 x 95
	58	-	0.35	2 x 10	2 x 14	2 x 40	2 x 60
Flourescent Lamps Parallel correction	18	4.5	0.12	7	8	48	73
	24	4.5	0.15	7	8	48	73
	36	4.5	0.2	7	8	48	73
	58	7	0.32	4	5	31	47
Flourescent Lamps with electronic ballast units (EVG)	1 x 18	-	0.09	25	35	100	140
	1 x 36	-	0.16	15	20	52	75
	1 x 58	-	0.25	14	19	50	72
	2 x 18	-	0.17	12	17	50	70
	2 x 36	-	0.32	7	10	26	38
High-pressure Mercury-vapour Lamps uncorrected	2 x 58	-	0.49	7	9	25	36
	50	-	0.61	14	18	38	55
	80	-	0.8	10	13	29	42
	125	-	1.15	7	9	20	29
	250	-	2.15	4	5	10	15
High Pressure Mercury-vapour Lamps Parallel correction	400	-	3.25	2	3	7	10
	700	-	5.4	1	2	4	6
	1000	-	7.5	1	1	3	4
	50	7	0.28	4	5	31	47
	80	8	0.41	4	5	27	41
High Pressure Mercury-vapour Lamps Parallel correction	125	10	0.65	3	4	22	33
	250	18	1.22	1	2	12	18
	400	25	1.95	1	1	9	13
	700	45	3.45	-	-	5	7
	1000	60	4.8	-	-	4	5
Halogen metal-vapour Lamps uncorrected	35	-	0.53	18	22	43	60
	70	-	1	10	12	23	32
	150	-	1.8	5	7	12	18
	250	-	3	3	4	7	10
	400	-	3.5	3	3	6	9
Halogen metal-vapour Lamps Parallel correction	1000	-	9.5	1	1	2	3
	2000	-	16.5	-	-	1	1
	35	6	0.25	5	6	36	50
	70	12	0.45	2	3	18	25
	150	20	0.75	1	1	11	15
High-pressure Sodium-vapour Lamps uncorrected	250	33	1.5	-	1	6	9
	400	35	2.5	-	1	6	8
	1000	95	5.8	-	-	2	3
	2000	148	11.5	-	-	1	2
	150	-	1.8	5	6	17	22
High-pressure Sodium-vapour Lamps parallel	250	-	3	3	4	10	13
	400	-	4.7	2	2	6	8
	1000	-	10.3	-	1	3	3
	150	20	0.83	1	1	11	16
Low-pressure Sodium-vapour Lamps uncorrected	250	33	1.5	-	1	6	10
	400	48	2.4	-	-	4	6
	1000	106	6.3	-	-	2	3
	18	-	0.35	22	27	71	90
	35	-	1.5	7	9	23	30
Low-pressure Sodium-vapour Lamps Parallel correction	55	-	1.5	7	9	23	30
	90	-	2.4	4	5	14	19
	135	-	3.5	3	4	10	13
	180	-	3.3	3	4	10	13
Low-pressure Sodium-vapour Lamps Parallel correction	18	5	0.35	6	7	44	66
	35	20	0.31	1	1	11	16
	55	20	0.42	1	1	11	16
	90	26	0.63	1	1	8	12
	135	45	0.94	-	-	4	7
	180	40	1.16	-	-	5	8

Thermal Rating per Pole

Motor Rating AC3 (kW)

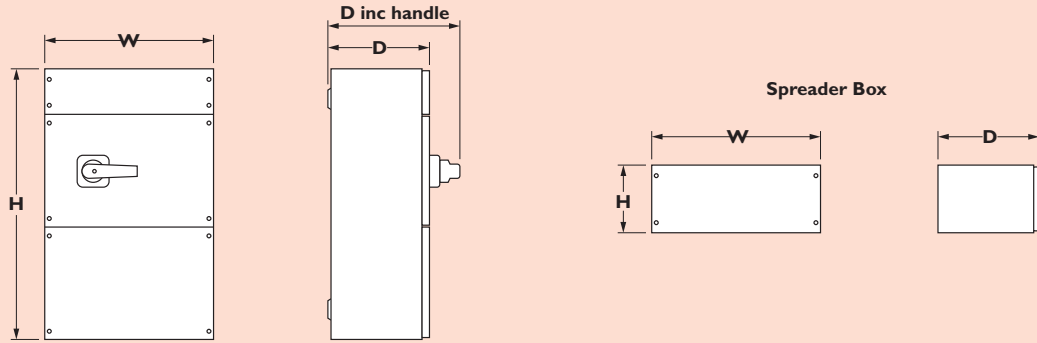
		230V	400V
MESB-20NO	20	1.3	-
MESB-24NO	25	2.2	4
MESB-40NO	40	5.5	11
MESB-63NO	63	8.5	15

AC Ratings in accordance with BSEN60947-5-1 and BSEN 60947-4-1

Definitions: AC1 Primarily Resistive Load but may be slightly inductive AC3 Medium-Starting-duty motors, starting and switching off of squirrel-cage motors

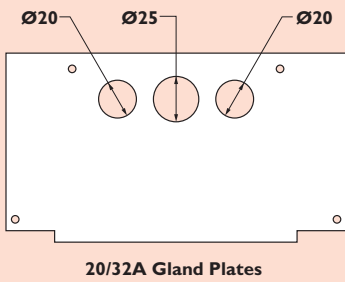


**DIMENSION DETAILS**

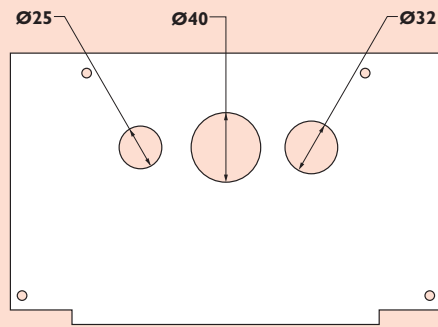


**HOUSED UNIT DIMENSIONS (mm)**

HOUSED UNIT	H	W	D	D inc. handle		H	W	D
20-32A	220	210	135	200				
63-100A	420	262	188	258	SPREADER BOX	105	262	183
125-200A	525	315	240	273	SPREADER BOX	105	315	210
315-400A	735	420	240	305	SPREADER BOX	210	420	240



20/32A Gland Plates



63-100A Gland Plates

All Dimensions in mm

**SPECIFICATION**

- BSEN947-3
- Range of ratings 20A-400A
- Pole configurations SP & N, and TP & N
- Voltage rating 415V ac
- Frequency rating 50/60 Hz
- Fuse type BS88

**TECHNICAL DATA**

	20-32A	63A	100A	125A	160A	200A	315A	400A
Mechanical Endurance	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Fused s/c Current kA RMS	80	80	80	80	80	80	80	80
Ratings	A kW	A kW	A kW	A kW	A kW	A kW	A kW	A kW
415V Ie/pe	32 15	63 30	100 55	125 75	160 90	200 110	315 160	400 220
Isolator links	-	NHCIL2	NHCIL3	NHCIL3	NHCIL3	NHCIL3	NHCIL4	NHCIL4

**FUSE COMPARISON DATA**

CURRENT RATING	BS 88 REFERENCE	LAWSON	GEC	BUSSMAN
20/32A	A1	NIT	NIT	NITD
63A	A3, A2	TIS	TIS	BAO
100A	A4	TCP	TCP	CEO
125A	A4	CTFP	TCP	DEO
160A	A4	CTFP	TCP	DEO
200A	A4	CTFP	TCP	DEO
315A	B3	TKF	TKF	ED
400A	B4, B3, B2,B1	TFM	TFM	ED





List No	Page No	List No	Page No	List No	Page No	List No	Page No
104	24	NH00	9	NHGPCB1001	19	NHRS10704	5
106	24	NH00	13	NHGPCB1003	19	NHRS10706	6
108	24	NH10ED4	29	NHGPCB1251	19	NHRS11104	4
204	24	NH10ED6	29	NHGPCB1253	19	NHRS1104+3	4
206	24	NH1104	4	NHGPCB251	19	NHRS11106	6
304	24	NH1104+3	4	NHGPCB253	19	NHRS11106+3	7
306	24	NH1106	6	NHGPCB321	19	NHRS11604	5
404	24	NH1106+3	7	NHGPCB323	19	NHRS11606	6
406	24	NH13ED4	29	NHGPCB401	19	NHRS12504	5
604	24	NH13ED6	29	NHGPCB403	19	NHRS12506	6
606	24	NH1404	4	NHGPCB501	19	NHRS12SL	5
804	24	NH1406	6	NHGPCB503	19	NHRS12SLM	7
106 RED	24	NH16ED4	29	NHGPCB631	19	NHRS1404	4
108M	24	NH16ED6	29	NHGPCB633	19	NHRS1406	6
110M	24	NH1904	4	NHGPCB801	19	NHRS17SL	5
110M/63	24	NH1906	6	NHGPCB803	19	NHRS17SLM	7
110M/80	24	NH200TPI	13	NHIX11604	4	NHRS1904	4
145CM	24	NH204/40	4	NHIX11606	7	NHRS1906	6
160C	24	NH204/63	4	NHIX2404	4	NHRS204/40	4
160CM	24	NH206/40	6	NHIX2406	7	NHRS204/63	4
3TPBP	13	NH206/63	6	NHIX3304	4	NHRS206/40	6
921E	31	NH21ED4	29	NHIX3306	7	NHRS206/63	6
921X	31	NH21ED6	20	NHIX3904	4	NHRS2404	5
B10	25	NH4ED4	29	NHIX4504	4	NHRS2406	6
B16	25	NH4ED6	29	NHIX4506	7	NHRS3304	5
B20	25	NH4PINKIT	13	NHIX4804	4	NHRS3306	6
B32	25	NH504	4	NHIX51204	4	NHRS3604	5
B40	25	NH504+3	4	NHIX51206	7	NHRS3606	6
B6	25	NH506	6	NHIX5404	4	NHRS3904	5
C15	25	NH506+3	7	NHIX5406	7	NHRS3906	6
C20	25	NH7ED4	29	NHIX5704	4	NHRS4204	5
C30	25	NH7ED6	29	NHIX5706	7	NHRS4206	6
C35	25	NH8+3	12	NHIX6604	4	NHRS4504	5
C40	25	NH8+6	12	NHIX6606	7	NHRS4506	6
C45	25	NH804	4	NHIX7504	4	NHRS4804	5
C5	25	NH804+3	4	NHIX7506	7	NHRS4806	6
CFL05	25	NH804+6	4	NHIX8904	4	NHRS504	4
CFL10	25	NH806	6	NHIX8906	7	NHRS504+3	4
CFL15	25	NH806+3	7	NHIX9804	4	NHRS506	6
CFL20	25	NH806+6	7	NHIX9806	7	NHRS506+3	7
CFL30	25	NHAB	13	NHISS3406	8	NHRS51204	5
CFL35	25	NHAB2	13	NHISS4606	8	NHRS51206	6
CFL40	25	NHAB3	13	NHISS5504	8	NHRS5404	5
CFL45	25	NHAB4	13	NHISS5506	8	NHRS5406	6
EIU	9	NHAB5	13	NHISS8704	8	NHRS5604+6	5
ESE2	29	NHCBDK11	18	NHISS8706	8	NHRS5606+6	7
ESE2L	29	NHCBDK12	18	NHPB12CB200	17	NHRS5704	5
ESE4	29	NHCBDK15	18	NHPB12CB400	18	NHRS5706	6
ESM11	29	NHCEKIT	13	NHPB12SW250	17	NHRS61104	5
ESM13	29	NHCEKIT20	13	NHPB12SW400	18	NHRS61106	6
ESM6	29	NHCIL2	21	NHPB16CB400	18	NHRS6304	5
ESM7	29	NHCIL3	21	NHPB16SW400	18	NHRS6306	6
ESM8	29	NHCIL4	21	NHPB6CB200	17	NHRS6504+6	5
FALNH10SL	8	NHCL	13	NHPB6CB400	18	NHRS6604	5
FALNH1106	8	NHCSB	17	NHPB6SW250	17	NHRS6606	6
FALNH15SL	8	NHCSB2	21	NHPB6SW400	18	NHRS6804+3	5
FALNH706	8	NHCSB3	21	NHPB8CB200	17	NHRS71004	5
FALNHIX10SL	8	NHCSB4	21	NHPB8CB400	18	NHRS71006	6
FALNHRS1106	8	NHDIX1111	8	NHPB8SW250	17	NHRS7504	5
FALNHRS706	8	NHDIX1414	8	NHPB8SW400	18	NHRS7506	6
FC	25	NHDIX1919	8	NHPBDL	13	NHRS7704+3	5
FWC	25	NHDIX88	8	NHPCB1TS	19	NHRS7706+3	7
L45	25	NHDIS1111	8	NHPCB3TS	19	NHRS804	4
L60	25	NHDIS1414	8	NHPCBAU1	19	NHRS804+3	4
LFL100	25	NHDIS1919	8	NHPCBAU2	19	NHRS804+6	4
LFL45	25	NHDIS88	8	NHPCBL	19	NHRS806	6
LFL60	25	NHDISX1111	8	NHPCBLDX	19	NHRS806+3	7
LFL80	25	NHDISX1414	8	NHRM1104	4	NHRS806+6	7
M10	25	NHDISX1919	8	NHRM1104+3	4	NHRS8404	5
MAT1	9	NHDISX88	8	NHRM1106	6	NHRS8406	6
MCBLDX	13	NHDPDC	13	NHRM1404	4	NHRS8604+3	5
MDT2	9	NHDSSX1111	8	NHRM1406	6	NHRS8904	5
MESB-20NO	9	NHDSSX1414	8	NHRM1904	4	NHRS8906	6
MESB-24NO	9	NHDSSX1919	8	NHRM1906	6	NHRS9304	5
MESB-40NO	9	NHDSSX88	8	NHRM204/40	4	NHRS9306	6
MESB-63NO	9	NHDTMS1111	8	NHRM204/63	4	NHRS9804	5
MSTT-111	9	NHDTMS1414	8	NHRM206/40	6	NHRS9806	6
MSTT-227	9	NHDTMS1919	8	NHRM206/63	6	NHRS9SL	5
MSTU6011R	9	NHDTMS88	8	NHRM504	4	NHRS9SLM	7
MSTU6011S	9	NHEB	13	NHRM504+3	4	NHRSX5704	4
MSTU6112R	9	NHEP11	13	NHRM506	6	NHRSX5706	7
MSTU8011R	9	NHFHDK17	17	NHRM804	4	NHRSX6604	4
MSTU8011S	9	NHFHDK20	17	NHRM804+3	4	NHRSX6606	7
MSTU8112R	9	NHG13DB	18	NHRM804+6	4	NHRSX7504	4
MTS8	9	NHGAB	17	NHRM806	6	NHRSX7506	7

List No	Page No	List No	Page No	List No	Page No	List No	Page No
NHRXS8904	4	NHTN40	12	NSC20	9	PSBS20/2	15
NHRXS8906	7	NHTN6	12	NSC30	9	PSBS32/1	15
NHRXS9804	4	NHTN60	12	NSC35	9	PSBS32/2	15
NHRXS9806	7	NHTN8	12	NSC40	9	PSBS40/1	15
NHSN111	12	NHTN80	12	NSC45	9	PSBS40/2	15
NHSN141	12	NHTPDC	13	PDDPL	13	PSBS50/1	15
NHSN161	12	NHTPSF100	14	PSB06-B	14	PSBS6/1	15
NHSN191	12	NHTPSF125	21	PSB06-C	14	PSBS6/2	15
NHSN51	12	NHTPSF160	21	PSB06-D	14	PSDL	13
NHSN81	12	NHTPSF20	21	PSB10-B	14	PSDPL	13
NHSPAK	13	NHTPSF200	21	PSB10-C	14	R15	25
NHSPSF100	21	NHTPSF315	21	PSB10-D	14	R20	25
NHSPSF20	21	NHTPSF32	21	PSB16-B	14	R30	25
NHSPSF32	21	NHTPSF400	21	PSB16-C	14	R5	25
NHSPSF63	21	NHTPSF63	21	PSB16-D	14	REC2	31
NHSTM10704	5	NSB06	9	PSB206-B	14	REC2S	31
NHSTM10706	7	NSB06-B	14	PSB206-C	14	REC3	31
NHSTM11604	5	NSB06-C	14	PSB206-D	14	REC4	31
NHSTM11606	7	NSB06-D	14	PSB20-B	14	WBE/BS	29
NHSTM12504	5	NSB10	9	PSB20-C	14	WBE3	29
NHSTM12506	7	NSB10-B	14	PSB20-D	14	WBE3/EK	29
NHSTM2404	5	NSB10-C	14	PSB210-B	14	WBE3/NK	29
NHSTM2406	7	NSB10-D	14	PSB210-C	14	WBE4	29
NHSTM3304	5	NSB16	9	PSB210-D	14	WBE4/EK	29
NHSTM3306	7	NSB16-B	14	PSB216-B	14	WBE4/NK	29
NHSTM3604	5	NSB16-C	14	PSB216-C	14	WME/FB	29
NHSTM3606	7	NSB16-D	14	PSB216-D	14	WPL	13
NHSTM3904	5	NSB20	9	PSB220-B	14	WRDM100/2	28
NHSTM3906	7	NSB20-B	14	PSB220-C	14	WRDM100/4	28
NHSTM4204	5	NSB20-C	14	PSB220-D	14	WRDM40/2	28
NHSTM4206	7	NSB20-D	14	PSB232-B	14	WRDM40/4	28
NHSTM4504	5	NSB306-B	14	PSB232-C	14	WRDM63/4	28
NHSTM4506	7	NSB306-C	14	PSB232-D	14	WRDS100/2	28
NHSTM4804	5	NSB306-D	14	PSB240-B	14	WRDS100/4	28
NHSTM4806	7	NSB310-B	14	PSB240-C	14	WRDS40/2	28
NHSTM51204	5	NSB310-C	14	PSB240-D	14	WRDS40/4	28
NHSTM51206	7	NSB310-D	14	PSB250-B	14	WRDS63/2	28
NHSTM5404	5	NSB316-B	14	PSB250-C	14	WRDS63/4	28
NHSTM5406	7	NSB316-C	14	PSB250-D	14	WRDS80/2	28
NHSTM5704	5	NSB316-D	14	PSB263-B	14	WRDVS32/2	28
NHSTM5706	7	NSB32	9	PSB263-C	14	WRL100/2	28
NHSTM61104	5	NSB320-B	14	PSB263-D	14	WRL100/4	28
NHSTM61106	7	NSB320-C	14	PSB306-B	14	WRL63/2	28
NHSTM6304	5	NSB320-D	14	PSB306-C	14	WRL63/4	28
NHSTM6306	7	NSB32-B	14	PSB306-D	14	WRM100/2	28
NHSTM6604	5	NSB32-C	14	PSB310-B	14	WRM100/4	28
NHSTM6606	7	NSB32-D	14	PSB310-C	14	WRM40/2	28
NHSTM71004	5	NSB332-B	14	PSB310-D	14	WRM40/4	28
NHSTM71006	7	NSB332-C	14	PSB316-B	14	WRM63/2	28
NHSTM7504	5	NSB332-D	14	PSB316-C	14	WRM63/4	28
NHSTM7506	7	NSB340-B	14	PSB316-D	14	WRM80/2	28
NHSTM8404	5	NSB340-C	14	PSB320-B	14	WRMT100/2	28
NHSTM8406	7	NSB340-D	14	PSB320-C	14	WRMT100/4	28
NHSTM8904	5	NSB350-B	14	PSB320-D	14	WRS100/2	28
NHSTM8906	7	NSB350-C	14	PSB32-B	14	WRS100/4	28
NHSTM9304	5	NSB350-D	14	PSB32-C	14	WRS16/2	28
NHSTM9306	7	NSB363-B	14	PSB32-D	14	WRS25/2	28
NHSTM9804	5	NSB363-C	14	PSB332-B	14	WRS32/2	28
NHSTM9806	7	NSB363-D	14	PSB332-C	14	WRS32/4	28
NHSW3100	21	NSB40	9	PSB332-D	14	WRS40/2	28
NHSW3125	21	NSB40-B	14	PSB340-B	14	WRS40/4	28
NHSW320	21	NSB40-C	14	PSB340-C	14	WRS63/2	28
NHSW332	21	NSB40-D	14	PSB340-D	14	WRS63/4	28
NHSW340	21	NSB50	9	PSB350-B	14	WRS80/2	28
NHSW363	21	NSB50-B	14	PSB350-C	14	WS101	31
NHSW363X	21	NSB50-C	14	PSB350-D	14	WS102	13
NHTM1104	4	NSB50-D	14	PSB363-B	14	WS102	31
NHTM1106	6	NSB63-B	14	PSB363-C	14	WS103	13
NHTM1404	4	NSB63-C	14	PSB363-D	14	WS103	31
NHTM1406	6	NSB63-D	14	PSB40-B	14	WS104	13
NHTM1904	4	NSBS10/1	9	PSB40-C	14	WS104	31
NHTM1906	6	NSBS10/2	9	PSB40-D	14	WS121	31
NHTM504	4	NSBS16/1	9	PSB50-B	14	WS122	13
NHTM506	6	NSBS16/2	9	PSB50-C	14	WS122	31
NHTM804	4	NSBS20/1	9	PSB50-D	14	WS123	13
NHTM806	6	NSBS20/2	9	PSB63-B	14	WS123	31
NHTN12	12	NSBS32/1	9	PSB63-C	14	WS124	13
NHTN120	12	NSBS32/2	9	PSB63-D	14	WS124	31
NHTN16	12	NSBS40/1	9	PSBL1	13	WS601	31
NHTN160	12	NSBS40/2	9	PSBL3	13	WS602	31
NHTN20	12	NSBS6/1	9	PSBS10/1	15	WS603	31
NHTN200	12	NSBS6/2	9	PSBS10/2	15	WS604	31
NHTN24	12	NSC05	9	PSBS16/1	15	WSB1	9
NHTN240	12	NSC10	9	PSBS16/2	15		
NHTN4	12	NSC15	9	PSBS20/1	15		



Numeric Index





# Electrium



## ELECTRIUM SALES LIMITED

Commercial Centre, Lakeside Plaza, Walkmill Lane, Bridgtown, Cannock WS11 0XE.  
eMail: [info@electrium.co.uk](mailto:info@electrium.co.uk) Web: [www.electrium.co.uk](http://www.electrium.co.uk)

### UK SALES

Telephone: 01543 455020 Facsimile: 01543 455021 eMail: [wylex.sales@electrium.co.uk](mailto:wylex.sales@electrium.co.uk)

### TECHNICAL

Telephone: 01543 438320 Facsimile: 01543 438321 eMail: [wylex.technical@electrium.co.uk](mailto:wylex.technical@electrium.co.uk)

### EXPORT SALES

Telephone: +44 1543 455049 Facsimile: +44 1543 455048 eMail: [export@electrium.co.uk](mailto:export@electrium.co.uk)

### DUBAI OFFICE

Telephone: +971 4 2666403 Facsimile: +971 4 2666031

### DUBLIN OFFICE

Telephone: +353 1 4513303 Facsimile: +353 1 4513242

Although every effort has been made to ensure accuracy in the compilation of the technical detail within this publication, specifications and performance data are constantly changing. Latest details can be obtained from Wylex.

Publication No. WY 2001

Printed in England.