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Introduction

This document provides the definitions and spelling of the most common terms and acronyms used for grinding solutions.

Categories

A tag is allocated to each term to define the context where the term is used. It guides the reader to understand quickly in which category the term is applied.

- application
- system
- product
- service
- general

Reasons for a glossary

Consistency = key

Consistency in the language and messages we use demonstrates

- our focus,
- improves recognition of ABB and our products,
- gives our products a clear profile
- and thus a more professional and authentic/reliable appearance.

Main rules

- We use US spelling.
- We capitalize only proper nouns, proper names (of persons, countries, companies, etc.), derivatives ("he is American", etc.), formal titles (Country Manager, etc.) and product names (GAP-Watch™, Expert Optimizer, Knowledge Manager, AC800PEC) or acronyms/abbreviations.
- We apply the rules to everything we write.

List of acronyms

AC alternating current **MCB** main circuit breaker AG autogenous mill MLCP mill local control panel ΑI analog input MMS manufacturing message specification

ΑO analog output MCC motor control center ARU active rectifier unit **MTBF** mean time between failure BOD break over diode MTTR mean time to repair CRB controlled rollback NS norms and standards

CCT cycloconverter control terminal OLE object linking and embedding OPC OLE for process control DC direct current

DCS distributed control system PD partial discharge

PEC power electronics controller DI digital input

DIRIS® diagnostic inspection with rotor in situ PF power factor

DO PFC power factor correction digital output DTC direct torque control **PROFIBUS** process field bus

exempli gratia PLC programmable logic controller eg

FAT factory acceptance test **RMD** ring-geared mill drive **GMD** gearless mill drive SAG semiautogenous mill HF harmonic filter SC static converter

HPGR high pressure grinding rolls SC synchronous condenser

HVAC heating, ventilation and air conditioning ΤI test instruction

human machine interface TC HMI test certificate **HSS** high-speed solution TEC16 tension easy check

id est **UPS** uninterruptible power supply ie ITP inspection and test plan **VMS** video monitoring system

Ю input output VSI voltage source inverter LSS low-speed solution WI work instruction

WAZ Wechselstrom Antrieb / Achsial Zement LV low voltage MV medium voltage

Terminology

A

Term AC800M
Acronym n/a
Category product
Application GMD, RMD

Definition Automation controller 800 modular. Embedded control platform used for the controls of digital and analogue

signals necessary to control, protect and monitor the gearless mill drive system.

Term AC800PEC

Acronym n/a
Category product
Application GMD, RMD

Definition Automation controller 800 power electronic control. Embedded control platform used for the control of the

frequency converter and with this the electrical motor of the mill drive system.

Term ACS1000
Acronym n/a
Category product
Application RMD

Definition Medium voltage, VSI topology based, variable-speed frequency converter used for ring-geared drive solutions.

Term ACS6000
Acronym n/a
Category product
Application RMD

Definition Medium voltage, VSI topology based, variable-speed frequency converter used for ring-geared drive solutions.

Term active rectifier unit

Acronym ARU
Category product
Application RMD

Definition ARU is a modular part of the ACS6000, which actively rectifies the AC line voltage and charges the DC link

capacitors. The ARU allows four-quadrant operation for regenerative braking, which reduces the overall energy

consumption. It can control the power factor to unity or lead in the whole operating range.

Term air clutch
Acronym n/a
Category product
Application RMD

Definition A mechanical device using air to gradually start or stop the transmission of power from a usually synchronous

motor.

Term air gap
Acronym n/a
Category system
Application general

Definition Distance between the stator and the rotor of the motor where the magnetic flux is built. In the gearless mill motor

the distance is monitored and protected within the permitted limits by the AC800PEC controller.

Term alignment

Acronym n/a
Category system
Application RMD

Definition The accurate positioning of the mechanical component. In case of the RMD, the accurate positioning of the

motor shaft with the gearbox or the mill pinion shaft.

Term alternating current

Acronym AC
Category system
Application general

Definition Bi-directional flow or movement of electric charge whose polarity changes.

Term autogenous mill

Acronym AG
Category system
Application GMD, RMD

Definition Rotating drum used to reduce the size of raw material by the projection and the self-gravity of the material itself.

The mill works without use of additional metallic balls charge.

Term automatic positioning

Acronym n/a

Category application Application GMD, RMD

Definition Functionality to rotate the mill at a specific angle.

Term auxiliary controller

Acronym n/a
Category product
Application GMD, RMD

Definition Device used to locally control the function of auxiliary equipment as the cooling pumps or fans etc.

В

Term ball mill
Acronym n/a
Category system
Application GMD, RMD

Definition Rotating drum used to reduce the size of raw material by the projection and the self-gravity of the material itself.

It works with the use of additional metallic balls. A ball mill has generally 30% to 45% ball charge.

Term break over diode

Acronym BOD
Category product
Application GMD

Definition Gate-less two-terminal power semiconductor switch in which transition from a conducting state is triggered by a

dV/dt pulse to the anode.

C

Term circuit breaker

Acronym n/a
Category product
Application general

Definition Automatic switch that stops the flow of electric current in a suddenly overloaded or otherwise abnormally

stressed electric circuit. Also referred to as breaker.

Term close-loop control

Acronym n/a
Category system
Application general

Definition Type of control system that automatically changes the output based on the difference between the feedback and

the reference signal.

Term controlled rollback

Acronym CRB
Category application
Application GMD, RMD

Definition Function used to avoid oscillation of the mill while stopping. Also called "reduce mill rocking".

Term coupling supervision

Acronym n/a

Category application Application RMD

Definition Monitors deviations in torque to detect a failure or a slippage of the couplings between the motors and mill on

dual pinion drives. Monitors the derivatives of torque and actual speed on single pinion drives. In case a failure is

detected, the drive stops the motor, preventing damage to the drive train.

Term creeping
Acronym n/a

Category application Application GMD, RMD

Definition Mill speed used during maintenance when changing the mill liners or during mechanical inspection. The mill

creeping speed range is between 0.3 ... 2 rpm.

Term cycloconverter

Acronym n/a
Category product
Application general

Definition Type of frequency converter topology especially suitable for low frequency and high current application. It is used

to run the gearless mill drive.

Term cycloconverter control terminal

Acronym CCT
Category product
Application GMD

Definition Touch screen panel mounted inside the MLCP to control and monitor the GMD system locally.

D

Term diagnostic inspection with rotor in situ

Acronym DIRIS® Category product Application GMD

Definition A technology offering effective inspections of the motor slot wedges while the rotor remains in place.

Term diode bridge

Acronym n/a
Category product
Application RMD, HPGR

Definition Type of rectifier built of diodes that converts AC to DC voltage. Allows two-quadrant operation (motoring in two

directions with no regenerative braking), maintains the power factor at 0.96 in the whole operating range.

Term direct current

Acronym DC
Category system
Application general

Definition Uni-directional flow or movement of electric charge whose polarity never reverses.

Term direct torque control

Acronym DTC
Category product
Application RMD, HPGR

Definition Direct torque control is an optimized motor control method for AC drives that allows direct control of all the

core motor variables. In DTC, stator flux and torque are used as primary control variables. The motor state calculations are updated 40'000 times per second in the advanced motor software model by the high-speed digital processor. Due to the continuous updating of the motor state and the comparison of the actual values to

the reference values, every single switching in the inverter is determined separately.

Term distributed control system

Acronym DCS Category product Application general

Definition System controlling industrial or manufacturing process in which the controller elements are not located centrally

but distributed throughout the system with each component sub-system controlled by one or more controllers. The entire system of controllers is connected by networks for communication and monitoring. For example: The

GMD system is connected to the DCS as part of the overall process control.

Term **downtime**

Acronym n/a

Category application

Application GMD, RMD, HPGR

Definition Time for which the mill is not operating.

Term drive
Acronym n/a
Category product
Application general

Definition A drive is an electronic device used to regulate the performance of an electric motor. It works by controlling

frequency and voltage of the motor. The energy is supplied to the process through the motor shaft. Two physical quantities describe the state of the shaft: torque and speed. To control the flow of energy we must, therefore,

ultimately, control these quantities.

Term DriveMonitor™

Acronym n/a
Category product
Application RMD

Definition An intelligent monitoring and diagnostics system, which allows secure access to the drive from any location in the

world.

Ε

Term E-house
Acronym n/a
Category product

Application GMD, RMD, HPGR

Definition Electrical container including all required equipment to control, monitor and protect the GMD or RMD system. It is

pre-tested and pre-commissioned prior to shipment to reduce commissioning time on site.

Term end user
Acronym n/a
Category general
Application general

Definition Hyphenate (-) only when used as an adjective (end-user conference).

Term exempli gratia

Acronym eg Category general Application general

Definition Abbreviation stands for exempli gratia, meaning "for example".

F

Term factory acceptance test

Acronym FAT
Category application
Application general

Definition Test made in the factory to approve the design and the manufacturing in accordance with the requirements.

Term fire-fighting system

Acronym n/a
Category product
Application general

Definition Equipment used to prevent, extinguish, localize, or block fires in enclosed spaces. Fire-fighting systems are

installed in buildings and rooms where the fire hazard is comparatively high. A fire-fighting system includes a sensor capable of detecting combustion, alarm signaling devices, fire-extinguishing equipment, starting and stopping devices, and feeders for the fire-extinguishing substance; in some cases, it includes control equipment for the production process being protected. Atomizers, foam generators, and pipe nozzles form and direct the stream of the fire-extinguishing substance, which may be a liquid, foam, powder, or gas. Fire-extinguishing substances are fed into the system from a centralized supply from self-contained or combined feeders.

Term frequency converter

Acronym n/a
Category product
Application general
Definition see drive

Term firing angle

Acronym n/a
Category product
Application GMD

Definition Control angle representing the start of thyristor conduction.

Term foot mounted

Acronym n/a
Category system
Application GMD

Definition Ring motor is mounted on the base. This design is used for mills up to 26 feet in diameter.

Term frozen charge protection

Acronym n/a

Category application Application GMD, RMD

Definition Detection during the mill starting process to prevent any sedimented and/or frozen charge to break the mill/motor

arrangement.

Term frozen charge remover

Acronym n/a

Category application Application GMD, RMD

Definition When the mill charge is sedimented and/or frozen, this function allows to release the load and to cascade it at

the design value.

G

Term GAP-Watch™

Acronym n/a Category product Application GMD

Definition Monitoring system designed to constantly measure the length of the air gap between the stator and the rotor of

the ring motor while the mill is rotating. The measurement provides a real-time overview of the air gap along the

complete circumference of the motor.

Term gearbox
Acronym n/a
Category system
Application RMD

Definition Mechanical equipment that consist of gears and gear trains. It transmits mechanical energy by converting speed

and torque from the motor to the mill pinion.

Term gearless mill drive

Acronym GMD Category system Application GMD

Definition System solution used in the cement and mineral industry to drive grinding mills, consisting of converter

transformers, frequency converter, ring motor and auxiliaries. Especially suited for large power requirement, it has

a high value of efficiency and availability.

Term **greenfield**Acronym n/a

Category application Application general

Definition Site project earmarked for commercial and/or industrial development, with no need to demolish or rebuild

existing structures or without the need to consider any prior work.



Term harmonic
Acronym n/a
Category system
Application general

Definition Signal with a frequency which corresponds to a multiple (integer or not) of the base frequency.

Term harmonic filter

Acronym HF
Category system
Application general

Definition Device used to damp the harmonics created by an electrical circuit.

Term heating, ventilation and air conditioning

Acronym HVAC Category system Application general

Definition Technology of indoor or automotive environmental conditions.

Term high pressure grinding rolls

Acronym HPGR
Category drive system
Application HPGR

Definition Grinding equipment that consists of two counter rotating rolls (one floating, one fixed) enclosed in a strong frame.

Pressure is applied to the floating roll by means of a hydro-pneumatic spring system while the other is fixed in the frame. The material feed is introduced by a hopper mounted above the rolls, between which it is compressed under high pressure giving rise to breakage amongst the individual particles. This process is called inter-particle

comminution.

Term high-speed solution

Acronym HSS
Category system
Application RMD

Definition A drive system, which consists of a transformer, a drive, a mill controller and one or two high-speed machines

(typically 900-1200rpm) connected to a gearbox, which transmit the required torque to the mill pinion (see also

low speed solution) with lower speed.

Term human machine interface

Acronym HMI Category product Application general

Definition The user interface in a manufacturing or process control system. It provides a graphics-based visualization of

> an industrial control and monitoring system. It resides in an office-based computer that communicates with a specialized computer in the plant such as a programmable logic controller (PLC) or distributed control system

(DCS).

Term id est Acronym ie Category general Application general

Definition id est means "that is"

Term **Insulated Gate Bipolar Transistor**

Acronym **IGBT** Category product Application **RMD**

Definition Power electronic semiconductor, acts like a commutating switch.

Integrated Gate Commutated Thyristor Term

IGCT Acronym product Category Application **RMD**

Definition Power electronic semiconductor, acts like a commutating switch.

Term induction motor

Acronym n/a Category product Application **RMD**

Definition see Machines

Term inspection and test plan

Acronym ITP Category product Application general

Definition Plan defining the test (routine, type and witness test) made on equipment before shipment.

Term inching n/a Acronym Category application Application GMD, RMD

Definition Running the mill at very low speed for maintenance purposes.

Term interlock Acronym n/a Category system Application general

Definition Arrangement of hard-wired signal preventing unexpected start-up of the system.

Term inverter Acronym n/a Category product Application **RMD**

Definition An electrical device for converting direct current (DC) into alternating current (AC)(Also see rectifier).



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L

Term life cycle
Acronym n/a
Category application
Application general

Definition Cycle time between conception and obsolescence of equipment and/or project. The main phases of the life cycle

are conception, design, realization and service.

Term load sharing

Acronym n/a
Category system
Application RMD, HPGR

Definition Capability of sharing the torque equally between the pinions in a dual pinion ring-geared mill configuration.

Term low voltage

Acronym LV Category system Application general

Definition Write "low voltage", but when used as adjective: low-voltage switchgear.

According to IEC, voltage range between 50 VAC and 1 kVAC or 120 VDC and 1.5 kVDC.

Term low-speed solution

Acronym LSS
Category system
Application RMD

Definition Drive system, which consists of transformers, a drive, a mill controller and one or two low-speed machines

(typically 180-200rpm) connected directly to the mill pinion (see also high-speed solution).

M

Term machines
Acronym n/a
Category product
Application general

Definition Motors and generators are collectively referred to as "machines" or "electric machines." Motors are machines

that convert electrical energy into mechanical work in the form of a rotating shaft, while generators convert the mechanical work of a rotating shaft into electricity. The speed of a "synchronous" machine, i.e., the rate at which its shaft rotates, is dictated by the frequency of electricity in the grid to which it is connected. The speed of a synchronous machine is accurately predictable. This means that it maintains its speed irrespective of the load placed on it. The speed of an asynchronous machine is slightly slower than the frequency of the electricity it consumes or generates. Asynchronous motors slow down as their load increases and asynchronous generators change speed with the torque (rotational force) that is applied to their rotors.

Asynchronous machines are also referred to as induction motors.

Term main circuit breaker

Acronym MCB Category product

Application GMD, RMD, HPGR

Definition Circuit breaker controlling the main supply of the GMD and RMD system.

Term manufacturing message specification

Acronym MMS
Category product
Application general

Definition International standard dealing with messaging system for transferring real-time process data and supervisory

control information between networked devices and/or computer applications. The data exchange between the AC800PEC drive controller and the ABB PLC is based on the MMS protocol which uses Ethernet as the physical

data transport laver.

Term medium voltage

Acronym MV
Category system
Application general

Definition Write "medium voltage", but when used as adjective: medium-voltage switchgear.

According to ANSI/IEEE, voltage range between 1 kVaAC and 35 kVDC.

Term mill controller

Acronym n/a
Category system
Application GMD, RMD

Definition Specific controller used to control all grinding mill functionalities and protection.

Term mill local control panel

Acronym MLCP
Category product
Application GMD, RMD

Definition Panel installed locally at the motor to control and monitor the GMD or RMD system locally during maintenance

mode.

Term mill overload detection

Acronym n/a

Category application Application RMD, GMD

Definition If the mill is overloaded, the drive protects itself from overcurrent by reducing the speed. For mill applications, if

the speed reduces then the material flow decreases and the load inside the mill can increase. The torque limits

and speed are monitored to detect this behavior and stop the drive in case an overload is detected.

Term mill power ride-through

Acronym n/a

Category application Application GMD, RMD

Definition Controls the drive during ride-through so it can cope with network disturbances and voltage dips without

stopping the mill. This function also provides smooth acceleration back to the speed set point after the supply

voltage recovers, thus reducing the mechanical stress of the drive train.

Term mill turn 180°

Acronym n/a

Category application Application GMD, RMD

Definition Controlled half revolution of a grinding mill (for cement industry only).

Term motor control center

Acronym MCC
Category product
Application general

Definition Assembly of one or more enclosed sections having a common power bus and principally containing motor

control units to govern in predetermined manner the performance of an electric motor. Motor control centers are in modern practice a factory assembly of several motor starters. A motor control center can include variable

frequency drives, programmable controllers, metering and protection.

Ν

Term norms and standards

Acronym NS
Category system
Application general

Definition Rules regulating the practice to design, to manufacture and to test equipments.

 O

Term object linking and embedding

Acronym OLE Category product Application general

Definition Industrial connectivity standard that enables the transfer of automation data between automation hardware and

software. The OPC foundation is responsible for defining and maintaining all OPC specifications. OPC is based on client/server technology. OPC is a function library which provides a common API (Application Programming

Interface) for automation systems.

Term OLE for process control

Acronym OPC
Category product
Application general

Definition OPC stands for OLE for process control. OPC is a published industrial standard for system interconnectivity. The

OPC foundation maintains all the OPC specifications. It enables applications to exchange data on one or more computers using a client/server architecture. OPC defines a common set of interfaces. So applications retrieve data in exactly the same format regardless of whether the data source is a PLC, DCS, gauge, analyzer, software application or anything else. As a result, OPC is as an out-of-the-box, plug and play communication solution.

Term on site / off site

Acronym n/a
Category general
Application general

Definition example: "He is currently on site".

Term on-site/off-site

Acronym n/a Category general

Definition Example where the term is used as adjective: "He sent us the report of the on-site inspection".

Term online
Acronym n/a
Category general
Application general

Definition Do not write "on-line".

Term open-loop control

Acronym n/a Category system Application general

Definition Type of control system that computes its input into a system using only the current state and the model of the

system. The open-loop control does not use feedback to determine if its output has achieved the desired goal of

the input.

Term **overduty cycle mode**

Acronym n/a

Category application Application RMD, GMD

Definition Allows the drive system to generate additional torque for a certain amount of time in order to reduce load inside

the mill when overloaded.

P

Term partial discharge

Acronym PD
Category system
Application general

Definition Localized dielectric breakdown of an electrical insulation system under high voltage stress.

Term pedestal mounted

Acronym n/a
Category system
Application GMD

Definition The ring motor is mounted on the sides, approximately half way up the motor height, on pedestals built on the

base. This design is mostly used for mills larger than 26 feet in diameter.

Term pinion
Acronym n/a
Category system
Application RMD

Definition A pinion is a round gear used to transmit the torque from the motor to the ring-geared mill.

Term power electronics controller

Acronym PEC
Category product
Application general

Definition ABB-embedded control platform used for the control of the cycloconverter. It also controls digital and analogue

signals necessary to control, protect and monitor the gearless mill drive system (see AC800PEC).

Term power factor

Acronym PF
Category system
Application general

Definition System in an electrical circuit; angle between the voltage and the current. It also reflects the contribution of

apparent, active and reactive electrical power in a supplied circuit.

Term power factor correction

Acronym PFC
Category system
Application general

Definition Correction of the power factor to maximize its value close to 1.

Term process field bus

Acronym PROFIBUS
Category system
Application general

Definition Process field bus. Industrial control standard for field bus communication in automation technology.

Term programmable logic controller

Acronym PLC
Category product
Application general

Definition Microprocessor device that controls a dedicated process through digital and analogue signals.

Term pulse
Acronym n/a
Category system
Application general

Definition Current pulsations created by rectifiers in a power electronic system. Its value reflects the type of network and

the topology of the rectifier. In GMD systems, depending of the power rating 12-pulse or 18-pulse are commonly

used. In RMD systems 12-, 18- or 24-pulse. Write: 12-pulse/18-pulse converter.

C

Term quadrant (4-quadrant)

Acronym n/a
Category system
Application general

Definition A sector equal to one quarter of a circle, which defines in which mode the motor is acting.

I and III quadrant: Torque and speed have same direction, so the drive is accelerating (motoring).

II and IV quadrant: Torque is in the opposite direction than speed, so the drive is decelerating (braking).



Term rectifier
Acronym n/a
Category product
Application general

Definition An electrical device used to convert alternating current (AC) into direct current (DC). Also see inverter.

Term regenerative braking

Acronym n/a
Application general

Definition Braking (operation modes in quadrants II and IV) of a load by means of reversing the power flow from the load to

back the network as opposed to thermally dissipating the rotating energy of the load into mechanical brake or a

resistor (braking chopper).

Term ring motor
Acronym n/a
Category product
Application GMD

Definition Motor built around its driven equipment allowing direct magnetic torque transmission. Especially used for high

power and high torque applications rated above possible mechanical transmission. Avoiding a mechanical

gearbox, the system provides very high efficiency and availability.

Term ride-through

Acronym n/a
Category system

Application GMD, RMD, HPGR

Definition The capability of a drive system to stay alive during a voltage drop or a voltage loss. The drive sets the torque

reference to zero. The mill will start to slow down and the drive takes the energy of the still rotating machine to stabilize (motor is in generator operation). The drive stays in ride-through mode until either main power is back to

normal conditions or the machine speed reaches 10% rated speed. In the latter case the drive trips.

Term ring gear
Acronym n/a
Category system
Application RMD

Definition A gear cut on a ring shaped rim, which is mounted around the mill.

Term ring-geared mill drive

Acronym RMD
Category system
Application RMD

Definition Mill configuration where the torque generated by the motor is transmitted via a pinion (sometimes through a

gearbox) to the ring gear, permitting the mill to turn.

S

Term squirrel cage motor

Acronym SCM
Category product
Application RMD

Definition Asynchronous machine type that has the rotor short-circuited, looking like a squirrel cage. (Also see machines).

Term semiautogenous mill

Acronym SAG
Category application
Application GMD, RMD

Definition Rotating drum used to reduce the size of raw material by the projection and the self-gravity of the material itself.

A SAG mill works by means of 10% additional metallic balls charge.

Term service mode

Acronym n/a
Category system
Application RMD

Definition Mode set on the drive, which allows to perform maintenance on the mill, such as creeping, inching or automatic

positioning.

Term short-circuit power

Acronym n/a
Category system
Application general

Definition Power available in an electrical circuit when it is short-circuited. The value defines the stability of the circuit under

its normal loading condition.

Term shutdown (the)/to shut down

Acronym n/a
Category general
Application general

Definition One word when used as a noun. Two words when used as a verb.

Term snubber circuit

Acronym n/a Category system Application general

Definition Device damping the transient signal during the control and the commutation of power electronic switch.

Term stall protection

Acronym n/a

Category application Application general

Definition Protection used to avoid overloading situation while the mechanical driven equipment is locked.

Term standstill detection

Acronym n/a

Category application Application GMD, RMD

Definition Detects if the motors are at standstill before the operator is allowed to start the mill again. This function protects

the mechanical system from the stress of starting the mill when it is still rocking.

Term startup (the) / to start up

Acronym n/a

Category application Application general

Definition Act of starting for the first time a system or an installation. Write: one word when used as a noun. Two words

when used as a verb.

Term static converter

Acronym SC
Category product
Application general

Definition Static device using power electronics to convert the line power flow in a different frequency and/or voltage and/or

current.

Term SupportLine

Acronym n/a
Category service
Application general

Definition Hotline to support users with technical problems related of GMD systems.

Phone: +41 (0) 844 845 845 Fax: +41 (0) 58 586 73 08

E-mail: minerals.supportline@ch.abb.com

Term synchronous condenser

Acronym SC

Category application Application general

Definition Device identical to a synchronous motor, where the shaft is not connected to anything but spins freely. Its

purpose is to adjust conditions on the electric power transmission grid. It either generates or absorbs reactive

power to adjust the grid's voltage or to improve power factor.

Term synchronous motor

Acronym SM
Category product
Application GMD, RMD
Definition see machines

Τ

Term tension easy check

Acronym TEC16
Category service
Application GMD

Definition Maintenance tool used to check and reset the preload on the ring motor core bolts during maintenance actions.

This tool is designed for core bolts with thread M16.

Term test certificate

Acronym TC
Category system
Application general

Definition Document certifying the conformity of the equipment under the appropriate norms and standards.

Term test instruction

Acronym TI
Category system
Application general

Definition Process under which the tests of the equipment have to be executed.

Term Thyristor
Acronym n/a
Category product
Application general

Definition Power electronic semiconductor with controllable turn-on capability.

Term ton
Acronym n/a
Category product
Application general

Definition Plural = tons/Do not write: tonne

Term transient recorder

Acronym n/a
Category system
Application GMD

Definition Device used to record the signals of the GMD system at a fast sampling rate to the VMS system. Especially

helpful during test, start-up and troubleshooting.

Term trapezoidal mode

Acronym n/a
Category product
Application general

Definition Type of supply control voltage optimized to enhance the performance of the motor while minimizing the side

effect of the cycloconverter to the network.

uninterruptible power supply Term

Acronym **UPS** product Category Application general

Definition Device that provides energy backup when the electrical power supply fails or drops to an unacceptable

voltage level.

V

Term video monitoring system

Acronym **VMS** Category product Application GMD, RMD

Definition Systems monitoring the signals relevant for the control, the operation and the protection of the GMD or RMD

system and considered as HMI interface.

Term voltage source inverter

Acronym VSI Category product Application general

Definition Type of frequency converter topology consisting of a rectifier, which creates a constant DC voltage and an

inverter unit that creates the output voltage, which can be varied in amplitude and frequency. It is used to run the

ring-geared mill.

W

Term Wechselstrom Antrieb/Achsial Zement

Acronym WAZ product Category Application **GMD**

Definition Denomination of the ring motor type. Followed by the bore diameter in cm, the active stator length in cm and the

number of poles.

Term **WIDIPRO** Acronym n/a Category service Application **GMD**

Definition Equipment for diagnosing and investigating the condition of insulation and windings of electrical machines and

apparatus.

Term work instruction

WI Acronym Category system Application general

Definition Process under which the works have to be executed.

worldwide Term

Acronym n/a Category general Application general

Definition Do not write "world wide".







Contact us

ABB Switzerland Ltd.

Marketing Communications Segelhofstrasse 9P 5405 Baden 5 Dättwil Switzerland

Phone: +41 (0)58 586 71 33 E-Mail: minerals@ch.abb.com

www.abb.com/mining