

## GMD ROTOR - OFF LOAD DIS CONNECTOR DATA SHEET

### DATA

Model No.	RD.GMD10-M2	RD.GMD16-M2	RD.GMD10-S	RD.GMD16-S
<b>Application</b>	<b>Rotor</b>			
Installation Altitude, Ambient temperature	≤ 2000m, ≤ 40°C 2000m < h ≤ 4500m, ≤ 25°C	≤ 2000m, ≤ 40°C 2000m < h ≤ 4500m, ≤ 25°C	≤ 2000m, ≤ 40°C 2000m < h ≤ 4500m, ≤ 25°C	≤ 2000m, ≤ 40°C 2000m < h ≤ 4500m, ≤ 25°C
Rated normal current	≤ 800A	≤ 1200A	≤ 800A	≤ 1200A
Mounting	Motor Flange	Motor Flange	Free standing	Free standing
Exposed to solar radiation	Refer sun roof and sun shield options	Refer sun roof and sun shield options	Refer sun roof and sun shield options	Refer sun roof and sun shield options
<b>LV switchgear</b>				
General arrangement drawing	G01-RD.GMD-1000-M2 Sht's 1 to 3	G01-RD.GMD-1600-M2 Sht's 1 to 3	G01-RD.GMD-1000-S Sht's 1 to 2	G01-RD.GMD-1600-S Sht's 1 to 2
Standard	IEC61439-2	IEC61439-2	IEC61439-2	IEC61439-2
Installation	Outdoors	Outdoors	Outdoors	Outdoors
Phases (poles)	2	2	2	2
Rated voltage	1500	1500	1500	1500
Rated frequency	DC	DC	DC	DC
Rated normal current	750A	1200A	750A	1200A
Overload current 24hr	1000A	1500A	1000A	1500A
Overload current 5 times per hour	1200A/30s	1700A/30s	1200A/30s	1700A/30s
Rated power withstand voltage DC	3820V	3820V	3820V	3820V
Service Voltage	1000V	1000V	1000V	1000V
Rated short-time withstand current	50kA	50kA	50kA	50kA
Circuit diagrams (typical)	E01-RD.GMD Sht's 1 to 2	E01-RD.GMD Sht's 1 to 2	E01-RD.GMD Sht's 1 to 2	E01-RD.GMD Sht's 1 to 2
Labeling details (typical)	L01-RD.GMD	L01-RD.GMD	L01-RD.GMD	L01-RD.GMD
Degree of protection for enclosure	IP56	IP56	IP56	IP56
Enclosure material	2.0mm Thk Galvabond (Fully Welded)	2.0mm Thk Galvabond (Fully Welded)	2.0mm Thk Galvabond (Fully Welded)	2.0mm Thk Galvabond (Fully Welded)
Internal colour	Matt Black	Matt Black	Matt Black	Matt Black
External Colour standard - signal orange	RAL2010	RAL2010	RAL2010	RAL2010
External access hinged door padlockable	Yes - with 3 point latching	Yes - with 3 point latching	Yes - with 3 point latching	Yes - with 3 point latching
External access hinged door - door stay	Yes at bottom	Yes at bottom	Yes at bottom	Yes at bottom
External access hinged door earthing	Stud to Stud with 16mm² Conductor	Stud to Stud with 16mm² Conductor	Stud to Stud with 16mm² Conductor	Stud to Stud with 16mm² Conductor
Safety glass window for contact viewing	Yes - 160x100x10mm thick	Yes - 160x100x10mm thick	Yes - 160x100x10mm thick	Yes - 160x100x10mm thick
Interlocking (ON and OFF positions)	Electrical blocking magnet	Electrical blocking magnet	Electrical blocking magnet	Electrical blocking magnet
Anti - condensation heaters 220V 50Hz	1 x 20 Watt	1 x 20 Watt	1 x 20 Watt	1 x 20 Watt
<b>LV disconnectors</b>				
Standard	IEC60947-3	IEC60947-3	IEC60947-3	IEC60947-3
Phases (poles)	2	2	2	2
Rated voltage	1500V	1500V	1500V	1500V
Rated frequency	DC	DC	DC	DC
Rated power frequency withstand	10kV	10kV	10kV	10kV
Lightning impulse voltage withstand	12kV	12kV	12kV	12kV
Rated normal current	1000A	1600A	1000A	1600A
Type	OT1000 E02P	OT1600 E02P	OT1000 E02P	OT1600 E02P
Manual mechanism	Yes	Yes	Yes	Yes
Terminal shrouds	incl	incl	incl	incl
Auxiliary switch	OA1G10,OA3G01	OA1G10,OA3G01	OA1G10,OA3G01	OA1G10,OA3G01
Rated voltage of auxiliaries	220/110V AC 50Hz or 24V DC	220/110V AC 50Hz or 24V DC	220/110V AC 50Hz or 24V DC	220/110V AC 50Hz or 24V DC
Auxiliaries wired to terminals	2 N/O and 2 N/C	2 N/O and 2 N/C	2 N/O and 2 N/C	2 N/O and 2 N/C
Aux switch module	OEAZ8	OEAZ8	OEAZ8	OEAZ8
Operating handle interlocked with door	YSDA35	YSDA35	YSDA35	YSDA35
Dis connector handle padlockable	Yes - Open and Closed 6mm Shank	Yes - Open and Closed 6mm Shank	Yes - Open and Closed 6mm Shank	Yes - Open and Closed 6mm Shank
<b>Environment</b>				
Ambient air temperature	-20 to 40° C	-20 to 40° C	-20 to 40° C	-20 to 40° C
Average max. temperature over 24 hrs	≤35° C, ≤20° C	≤35° C, ≤20° C	≤35° C, ≤20° C	≤35° C, ≤20° C
Altitude	≤2000m, ≤4500m	≤2000m, ≤4500m	≤2000m, ≤4500m	≤2000m, ≤4500m
Humidity, average over 24 hrs	95%	95%	95%	95%
Salt	Nil	Nil	Nil	Nil
Dust	Substantial	Substantial	Substantial	Substantial
Vibration sinusoidal	TBA	TBA	TBA	TBA
Vibration seismic	Not applicable	Not applicable	Not applicable	Not applicable
<b>Solar radiation</b>				
Under roof (negligible exposure)	No additional protection	No additional protection	No additional protection	No additional protection
Exposed to sun	Sunscreens, T,L,R	Sunscreens, T,L,R	Sunscreens, T,L,R	Sunscreens, T,L,R
<b>Interfaces</b>				
Terminal and flange arrangement	41B8G589	41B8G589	N.A.	N.A.
Flange type	Type 2	Type 2	N.A.	N.A.
Cables bottom entry (copper)	Incoming 2 x 1 core 240mm² or 500 kcmil / pole	Incoming 2 x 1 core 240mm² or 500 kcmil / pole	Incoming and Outgoing 2 x 1 core 240mm² or 500 kcmil / pole	Incoming and Outgoing 2 x 1 core 240mm² or 500 kcmil / pole
Cable connection points	1 x 100x6 Cu Silver plated 6µm	1 x 100x10 Cu Silver plated 6µm	1 x 100x6 Cu Silver plated 6µm	1 x 100x10 Cu Silver plated 6µm
Cable lugs, single hole	LCN500 Lugs with 2 x M12 bolts	LCN500 Lugs with 2 x M12 bolts	LCN500 Lugs with 2 x M12 bolts	LCN500 Lugs with 2 x M12 bolts
Bottom removable gland plate	Aluminium 12 mm	Aluminium 12 mm	Aluminium 12 mm	Aluminium 12 mm
LV Control terminals	4mm² - Tunnel screwed	4mm² - Tunnel screwed	4mm² - Tunnel screwed	4mm² - Tunnel screwed
Earthing	30x6 Cu Earth bar with 1xM12 external studs	30x6 Cu Earth bar with 1xM12 external studs	30x6 Cu Earth bar with 1xM12 external studs	30x6 Cu Earth bar with 1xM12 external studs
Exclusions	Rotor flexible connections	Rotor flexible connections	N/A	N/A
Mounting height above operating platform	Refer general arrangement drawing	Refer general arrangement drawing	Refer general arrangement drawing	Refer general arrangement drawing
Operation height above platform	Refer general arrangement drawing	Refer general arrangement drawing	Refer general arrangement drawing	Refer general arrangement drawing
Panel nett size HxWxD excluding sun roof and	1000x650x430	1200x650x430	1000x650x430	1200x650x430
Panel nett weight excluding sun roof and sun	300 kg's	330 kg's	300 kg's	330 kg's
Crating details drawing	G02-RD-GMD Sheet 1	G02-RD-GMD Sheet 1	G02-RD-GMD Sheet 1	G02-RD-GMD Sheet 1
Shipping dimensions packed: Size HxWxD	1420x900x600	1620x900x600	1420x900x600	1620x900x600
Shipping weights, packed approx. kg	330 kg's	370 kg's	330 kg's	370 kg's

**DATA**

Model No.	RD.GMD10-M2	RD.GMD16-M2	RD.GMD10-S	RD.GMD16-S
Application	Rotor	Rotor	Rotor	Rotor
Options				
Key interlock switch and disconnect key lock with "Local Isolation Can Proceed" Indicator	Yes available - Fortress M Gaurd Refer Interlocking scheme data sheet for operation.	Yes available - Fortress M Gaurd Refer interlocking scheme data sheet for operation.	Yes available - Fortress M Gaurd Refer interlocking scheme data sheet for operation.	Yes available - Fortress M Gaurd Refer interlocking scheme data sheet for operation.
Dis connector motorised operation	Yes available - 220Vdc	Yes available - 220Vdc	Yes available - 220Vdc	Yes available - 220Vdc
Thermographic IR windows for monitoring	Yes available - 1 set of (1) for each area to be monitored. Recommend (2) sets	Yes available - 1 set of (1) for each area to be monitored. Recommend (2) sets	Yes available - 1 set of (1) for each area to be monitored. Recommend (2) sets	Yes available - 1 set of (1) for each area to be monitored. Recommend (2) sets
Mechanical number of operations counter	Yes - available	Yes - available	Yes - available	Yes - available
Internal panel light with external pushbutton	Yes available - 220Vac 50Hz	Yes available - 220Vac 50Hz	Yes available - 220Vac 50Hz	Yes available - 220Vac 50Hz
Remote earth connection balls including earth bar attachment point	Yes available - 1 set of (3) for each area to be earthed. Recommend (2) sets	Yes available - 1 set of (3) for each area to be earthed. Recommend (2) sets	Yes available - 1 set of (3) for each area to be earthed. Recommend (2) sets	Yes available - 1 set of (3) for each area to be earthed. Recommend (2) sets
Sun roof supplied loose.	Yes available - Painted same colour	Yes available - Painted same colour	Yes available - Painted same colour	Yes available - Painted same colour
Sun shileds front.	Yes available - Painted gloss white	Yes available - Painted gloss white	Yes available - Painted gloss white	Yes available - Painted same gloss
Sun shileds sides.	Yes available - Painted gloss white	Yes available - Painted gloss white	Yes available - Painted gloss white	Yes available - Painted same gloss