Switch-disconnector, DMM, 160 A, 3P + N (solid), Emergency switching off function, With red rotary handle and yellow locking ring, cylinder lock, in CI-K5 enclosure



Part no. DMM-160/3N/I5/C-R 172800

Product name	Eaton DMM Switch-disconnector
Part no.	DMM-160/3N/I5/C-R
EAN	4015081693849
Product Length/Depth	280 millimetre
Product height	200 millimetre
Product width	200 millimetre
Product weight	2.485 kilogram
Certifications	VDE 0660 CE IEC/EN 60204 RoHS IEC/EN 60947 IEC/EN 60947-3 EAC Lloyds KEMA
Product Tradename	DMM
Product Type	Switch-disconnector
Product Sub Type	None
Globally Marketable	Yes in CI-K5 enclosure Rated Short-time Withstand Current (Icw) for a time of 1 second
Features	Version as emergency stop installation Version as maintenance-/service switch Version as main switch
Fitted with:	Red rotary handle and yellow locking ring
Functions	Interlockable Emergency switching off function
Locking mechanism	Cylinder lock
Number of poles	Three-pole + N
Accessories	Auxiliary contact fitted by user.
Degree of protection	NEMA 12
Degree of protection (front side)	IP65
Lifespan, mechanical	10,000 Operations
Mounting method	Surface mounting
Mounting position	As required
Overvoltage category	III
Pollution degree	3
Rated impulse withstand voltage (Uimp)	6000 V
Safety parameter (EN ISO 13849-1)	B10d values as per EN ISO 13849-1, table C.1
Suitable for	Ground mounting
Ambient operating temperature - min	-25 °C
	40 °C
Ambient operating temperature - max	
Ambient operating temperature - max Ambient storage temperature - min	-40 °C
Ambient storage temperature - min	
	-40 °C 80 °C
Ambient storage temperature - min	

Tightening torque	7 Nm, Screw terminals
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	1080 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	528 A
Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)	336 A
Rated insulation voltage (Ui)	1000 V
Rated operational current (Ie) at AC-21, 400 V, 415 V	160 A
Rated operational current (Ie) at AC-21, 500 V	160 A
Rated operational current (Ie) at AC-21, 690 V	160 A
Rated operational current (Ie) at AC-22, 380 V, 400 V, 415 V	160 A
Rated operational current (Ie) at AC-22, 500 V	160 A
Rated operational current (Ie) at AC-22, 690 V	160 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V	140 A
Rated operational current (Ie) at AC-23A, 500 V	66 A
Rated operational current (Ie) at AC-23A, 690 V	42 A
Rated operational power at AC-23A, 400 V, 50 Hz	80 kW
Rated operational power at AC-23A, 400 V, 50 Hz	45 kW
Rated operational power at AC-23A, 500 V, 50 Hz	37 kW
Rated operational power at AC-3, 380/400 V, 50 Hz	0 kW
Rated operational voltage (Ue) at AC - min	690 V
Rated operational voltage (Ue) at AC - min	690 V
Rated uninterrupted current (Iu)	160 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
Offine Tupled Current	nateu uninten upteu current tu is specineu ioi max. cross-secuon.
Breaking current	13.5 kA
Let-through energy	Max. 86,9 kA ² s
Rated conditional short-circuit current (Iq)	50 kA 30 kA at 415 V
Rated short-time withstand current (Icw)	2,5 kA, Contacts, 1 second 2.5 kA
Short-circuit protection rating	160, Fuse, Contacts
Number of auxiliary contacts (change-over contacts)	0
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	0
Actuator color	Red
Actuator type	Short thumb-grip
Equipment heat dissipation, current-dependent Pvid	9.1 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	7.4 W
Rated operational current for specified heat dissipation (In)	160 A
Static heat dissipation, non-current-dependent Pvs	0 W
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation	UV resistance only in connection with protective shield.
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of assemblies	Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.0 most portation of systeming devices and components	2000 not appry, since the chare switchinger needs to be evaluated.

10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 8.0

Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03 [AKF060013])

Version as main averlach 6 Yes Version as suffice as witch 6 7 Version as suffice years witch 6 7 Version as suffice years on witch years of printalization 6 7 Version as suffice years on witch years of y	[AKF060013])		
Version as a safety switch Persion as emergency stop installation Version as a reversing switch Persion as reversing switch Number of switches 1 Max. rated operation voltage Ue AC 9 Rated operating voltage 2 4 Rated operating voltage 4 4 Rated permanent current at AC-23, 400 V A 160 Rated permanent current at AC-23, 400 V A 10 Rated permanent current at AC-23, 400 V A 10 Rated spermanent current bow A 10 Rated spermanent current at AC-23, 400 V A 10 Rated spermanent current bow A 10 Rated spermation power at AC-23, 400 V A 10 Rated spermation power at AC-23, 400 V A 10 Rated spermation power at AC-23, 400 V A 10 Number of auxiliary contacts as normally closed contact B 10 10 Number of auxiliary contacts as normally closed contact P 10 10 Motor drive aptional P 10 10 Mot	Version as main switch		Yes
Version as emergency stop installation Persion as reversing switch No Number of switches V 80 1 Number of switches V 90 600 Ruted operation voltage V 00 600 Ruted operating voltage V 00 600 Ruted permanent current at AC-23,400 V A 10 100 Ruted operation power at AC-3,400 V A 20 20 Ruted operation power at AC-3,400 V A 10 20 Ruted operation power at AC-3,400 V A 20 20 Ruted operation power at AC-3,400 V A 20 20 Ruted operation power at AC-3,400 V A 20 20 Ruted operation power at AC-3,400 V A 20 20 Ruted operation power at AC-3,400 V A 20 20 Number of auxiliary contacts as anomally closed contact A 20 20 Number of auxiliary contacts as normally closed contact A 20 20 Number of auxiliary contacts as change-over contact A 20 20 Motor drive optional A 20 20 Motor drive optional A 20 20	Version as maintenance-/service switch		Yes
Version as reversing switch Image: Control of switches Image: Control of switches <t< td=""><td>Version as safety switch</td><td></td><td>No</td></t<>	Version as safety switch		No
Number of switches Image: Companie of Switches Image:	Version as emergency stop installation		Yes
Max. rated operation voltage Ue AC V 899 Rated operating voltage V 890-690 Rated permanent current I A 160 Rated permanent current at AC-23,400V A 160 Rated permanent current at AC-23,400V A 180 Rated permanent current at AC-3,400V K 0 Rated short-time withstand current lew K A 150 Rated short-time withstand current lew K A 25 Rated short-time withstand current lew K A 9 Switching power at 400 V B Q 9 Number of power at 400 V A A 1 Number of awdillary contacts as normally open contact A A 1 Number of awdillary contacts as change-over contact B A No Notto of vive optional B </td <td>Version as reversing switch</td> <td></td> <td>No</td>	Version as reversing switch		No
Rated operating voltage V 690-690 Rated permanent current 1u A 180 Rated permanent current at AC-23, 400 V A 190 Rated permanent current at AC-23, 400 V A 190 Rated permanent current at AC-21, 400 V A 190 Rated operation power at AC-23, 400 V W 2 Rated operation power at AC-23, 400 V W 2 Switching power at 400 V W 0 Conditioned rated short-circuit current 1q W 0 Number of poles A 2 4 Number of auxiliary contacts as normally closed contact W 0 0 Number of auxiliary contacts as change-over contact W 0 0 Motor drive integrated W 0 0 Motor drive integrated W 0 0 Valtage release optional W 0 0 Device onstruction W 0 0 Suitable for four mounting W 0 0 Suitable for front mounting entre	Number of switches		1
Rated permanent current lu A 160 Rated permanent current at AC-23, 400 V A 140 Rated permanent current at AC-21, 400 V A 160 Rated permanent current at AC-3, 400 V A 160 Rated short-time withstand current Low KW 2.5 Rated operation power at AC-23, 400 V KW 8 Switching power at 400 V KW 9 Conditioned rated short-circuit current Iq KA 50 Number of poles KA 50 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as change-over contact 0 0 Motor drive optional V No 0 Motor drive optional V No 0 Motor drive integrated V No 0 Voltage release optional V No 0 Device construction V No 0 Suitable for floor mounting V No No Suitable for float mounting centre No No	Max. rated operation voltage Ue AC	V	690
Rated permanent current at AC-23, 400 V A 100 Rated permanent current at AC-21, 400 V A 100 Rated operation power at AC-3, 400 V W 0 Rated operation power at AC-23, 400 V A 125 Rated operation power at AC-23, 400 V W 0 Switching power at 400 V W 9 Conditioned rated short-circuit current Iq M 50 Number of poles A 4 4 Number of auxiliary contacts as normally closed contact B 6 0 Number of auxiliary contacts as normally open contact B 6 0 Motor drive optional B 6 No 0 Motor drive integrated B 6 No 0 Voltage release optional B 6 Complete device in housing 0 Suitable for floor mounting B 6 Complete device in housing 0 Suitable for from mounting 4-hole B 6 No No Suitable for inform mounting B 6 No<	Rated operating voltage	V	690 - 690
Rated permanent current at AC-21, 400 V Rated operation power at AC-3, 400 V Rated short-time withstand current lcw Rated short-time withstand current lcw Rated operation power at AC-23, 400 V Rotting power at 400 V Conditioned rated short-circuit current lq Number of poles Number of puxiliary contacts as normally closed contact Number of auxiliary contacts as normally cosed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Notor drive integrated Notor drive integrated Notor drive integrated Notice construction Suitable for front mounting Suitable for front mounting Suitable for front mounting 4-hole Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for intermediate mounting Colour control element Type of control element Type of control element Type of control element Type of electrical connection of main circuit Type of electrical connection of main circuit Type of electrical connection of main circuit Degree of protection (IP), front side	Rated permanent current lu	Α	160
Rated operation power at AC-3, 400 V kW 0 Rated short-time withstand current low kA 2.5 Rated operation power at AC-23, 400 V kW 80 Switching power at 400 V kW 0 Conditioned rated short-circuit current lq kW 50 Number of poles kW 6 Number of poles kW 0 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as normally open contact 0 0 Number of auxiliary contacts as change-over contact 0 0 Motor drive integrated 0 0 Voltage release optional 0 0 Device construction 0 0 Suitable for from mounting 0 0 Suitable for from mounting entre 0 0 Suitable for from mounting centre 0 0 Suitable for intermediate mounting 0 0 Suitable for intermediate mounting 0 0 Suitable for intermediate mounting 0 0	Rated permanent current at AC-23, 400 V	Α	140
Rated short-time withstand current low KA 25 Rated operation power at AC-23, 400 V kW 80 Switching power at 400 V kW 50 Conditioned rated short-circuit current lq kA 50 Number of poles kA 50 Number of auxiliary contacts as normally closed contact 4 4 Number of auxiliary contacts as normally open contact 6 9 6 Motor drive optional 6 70 80 Motor drive integrated 70 80 80 Voltage release optional 70 80 80 Device construction 80 70 80 Suitable for front mounting 4-hole 80 80 80 Suitable for front mounting 4-hole 80 80 80 Suitable for intermediate mounting 80 80 80 Suitable for intermediate mounting 80 80 80 Suitable for intermediate mounting 80 80 80 Colour control element 80 80 <t< td=""><td>Rated permanent current at AC-21, 400 V</td><td>Α</td><td>160</td></t<>	Rated permanent current at AC-21, 400 V	Α	160
Rated operation power at AC-23, 400 V Switching power at 400 V Conditioned rated short-circuit current Iq Number of poles Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as norm	Rated operation power at AC-3, 400 V	kW	0
Switching power at 400 V kW 0 Conditioned rated short-circuit current Iq kA 50 Number of poles 4 4 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as normally open contact 0 0 Number of auxiliary contacts as change-over contact 0 0 Motor drive optional Mo No Motor drive integrated No No Voltage release optional No No Suitable for floor mounting Yes Yes Suitable for floor mounting 4-hole No No Suitable for front mounting centre No No Suitable for distribution board installation No No Suitable for intermediate mounting No No Colour control element Red No Type of control element Yes Short thumb-grip Interlockable Yes Screw connection Type of electrical connection of main circuit Yes Screw connection	Rated short-time withstand current lcw	kA	2.5
Conditioned rated short-circuit current Iq kA 50 Number of poles 4 4 Number of auxiliary contacts as normally closed contact 6 9 Number of auxiliary contacts as normally open contact 6 9 Number of auxiliary contacts as change-over contact 6 9 Motor drive integrated 6 9 Voltage release optional 7 9 Suitable for floor mounting 6 2 Complete device in housing Suitable for front mounting 4-hole 7 9 9 Suitable for front mounting centre 7 9 9 Suitable for distribution board installation 7 9 9 Suitable for intermediate mounting 7 9 9 Suitable for intermediate mounting 8 9 9 Suitable for intermediate mounting 8 9 9 Suitable for intermediate mounting 8 8 9 Suitable for intermediate mounting 8 9 9 Colour control element 9 9 9 Type of control element 9	Rated operation power at AC-23, 400 V	kW	80
Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Notor drive optional Notor drive integrated N	Switching power at 400 V	kW	0
Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact No Motor drive optional No No Voltage release optional Device construction Suitable for floor mounting Suitable for front mounting 4-hole Suitable for firont mounting centre Suitable for distribution board installation Suitable for intermediate mounting Suitable for intermediate mounting Suitable for intermediate mounting Colour control element Type of control element Type of control element Type of electrical connection of main circuit Degree of protection (IP), front side	Conditioned rated short-circuit current Iq	kA	50
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Motor drive optional No Motor drive integrated No Voltage release optional No Device construction Complete device in housing Suitable for floor mounting Yes Suitable for front mounting 4-hole No Suitable for front mounting centre No Suitable for distribution board installation No Suitable for intermediate mounting No Colour control element Red Type of control element Short thumb-grip Interlockable Yes Type of electrical connection of main circuit Screw connection Degree of protection (IP), front side IP65	Number of auxiliary contacts as normally open contact		0
Motor drive integratedNoVoltage release optionalNoDevice constructionComplete device in housingSuitable for floor mountingYesSuitable for front mounting 4-holeNoSuitable for front mounting centreNoSuitable for distribution board installationNoSuitable for intermediate mountingNoColour control elementRedType of control elementShort thumb-gripInterlockableYesType of electrical connection of main circuitScrew connectionDegree of protection (IP), front sideIP65	Number of auxiliary contacts as change-over contact		0
Voltage release optional No Device construction Complete device in housing Suitable for floor mounting Yes Suitable for front mounting 4-hole No Suitable for front mounting centre No Suitable for distribution board installation No Suitable for intermediate mounting No Colour control element Red Type of control element Short thumb-grip Interlockable Yes Type of electrical connection of main circuit Screw connection Degree of protection (IP), front side IP65	Motor drive optional		No
Device construction Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Type of electrical connection of main circuit Degree of protection (IP), front side Complete device in housing Yes Complete device in housing Yes No Suitable for intermediate mounting No Red Short thumb-grip Yes Type of electrical connection of main circuit Degree of protection (IP), front side	Motor drive integrated		No
Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre No Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Short thumb-grip Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side Yes No Serves connection No Short thumb-grip Screw connection Screw connection IP65	Voltage release optional		No
Suitable for front mounting 4-hole Suitable for front mounting centre No Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side No No Short thumb-grip Screw connection IP65	Device construction		Complete device in housing
Suitable for front mounting centre No Suitable for distribution board installation No Suitable for intermediate mounting No Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side No No Short thumb-grip Yes Screw connection IP65	Suitable for floor mounting		Yes
Suitable for distribution board installation No Suitable for intermediate mounting No Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side No Red Short thumb-grip Yes Type of electrical connection of main circuit Degree of protection (IP), front side IP65	Suitable for front mounting 4-hole		No
Suitable for intermediate mounting No Colour control element Type of control element Short thumb-grip Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side No Red Short thumb-grip Yes Screw connection IP65	Suitable for front mounting centre		No
Colour control element Red Type of control element Short thumb-grip Interlockable Yes Type of electrical connection of main circuit Cegree of protection (IP), front side Red Short thumb-grip Yes It pes	Suitable for distribution board installation		No
Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side Short thumb-grip Yes Screw connection IP65	Suitable for intermediate mounting		No
Interlockable Yes Type of electrical connection of main circuit Screw connection Degree of protection (IP), front side IP65	Colour control element		Red
Type of electrical connection of main circuit Degree of protection (IP), front side Screw connection IP65	Type of control element		Short thumb-grip
Degree of protection (IP), front side	Interlockable		Yes
	Type of electrical connection of main circuit		Screw connection
Degree of protection (NEMA) 12	Degree of protection (IP), front side		IP65
	Degree of protection (NEMA)		12