

**Switch-disconnector, DMM, 160 A, 4 pole, Emergency switching off function, With red rotary handle and yellow locking ring, in CI-K5 enclosure**



**Part no.** **DMM-160/4/I5/P-R**  
**172797**  
**EL Number** **1405715**  
**(Norway)**

<b>General specifications</b>	
Product name	Eaton DMM Switch-disconnector
Part no.	DMM-160/4/I5/P-R
EAN	4015081693818
Product Length/Depth	280 millimetre
Product height	200 millimetre
Product width	200 millimetre
Product weight	2.47 kilogram
Certifications	IEC/EN 60204 CE VDE 0660 IEC/EN 60947-3 KEMA RoHS Lloyds IEC/EN 60947 EAC
Product Tradename	DMM
Product Type	Switch-disconnector
Product Sub Type	None
Catalog Notes	1 padlock, # 5 mm in CI-K5 enclosure Rated Short-time Withstand Current (Icw) for a time of 1 second
<b>Features &amp; Functions</b>	
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	Emergency switching off function Interlockable
Locking facility	Lockable in the 0 (Off) position
Number of poles	Four-pole
<b>General information</b>	
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
Oversupply 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
Switching angle	90 °
<b>Climatic environmental conditions</b>	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	40 °C
Ambient storage temperature - min	-40 °C
Ambient storage temperature - max	80 °C
<b>Terminal capacities</b>	

Terminal capacity	6 - 70 mm <sup>2</sup> , flexible with ferrules to DIN 46228
Stripping length (main cable)	21 mm
Tightening torque	7 Nm, Screw terminals
<b>Electrical rating</b>	
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, 500 V, 50 Hz	45 kW
Rated operational power at AC-23A, 690 V, 50 Hz	37 kW
Rated operational power at AC-3, 380/400 V, 50 Hz	0 kW
Rated operational voltage (Ue) at AC - max	690 V
Rated uninterrupted current (Iu)	160 A
Uninterrupted current	Rated uninterrupted current Iu is specified for max. cross-section.
<b>Short-circuit rating</b>	
Breaking current	13.5 kA
Let-through energy	Max. 86,9 kA <sup>2</sup>
Rated conditional short-circuit current (Iq)	30 kA at 415 V 50 kA
Rated short-time withstand current (Icw)	2.5 kA 2.5 kA, Contacts, 1 second
Short-circuit protection rating	160, Fuse, Contacts
<b>Contacts</b>	
Number of auxiliary contacts (change-over contacts)	0
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	0
<b>Actuator</b>	
Actuator color	Red
Actuator type	Short thumb-grip
<b>Design verification</b>	
Equipment heat dissipation, current-dependent Pvid	8 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.
10.7 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 9.0

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

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss13-27-37-14-03 [AKF060018])

Version as main switch	Yes
Version as maintenance-/service switch	Yes
Version as safety switch	No
Version as emergency stop installation	Yes
Version as reversing switch	No
Number of switches	1
Max. rated operation voltage Ue AC	V 690
Rated operating voltage	V 690 - 690
Rated permanent current Iu	A 160
Rated permanent current at AC-23, 400 V	A 140
Rated permanent current at AC-21, 400 V	A 160
Rated operation power at AC-3, 400 V	kW 0
Rated short-time withstand current Icw	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 Iq	kA 50
Number of poles	4
Number of auxiliary contacts as normally closed contact	0
Number of auxiliary contacts as normally open contact	0
Number of auxiliary contacts as change-over contact	0
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
With pre-assembled cabling	No
Degree of protection (IP), front side	IP65
Degree of protection (NEMA)	12
Width	mm 200

Height	mm	200
Depth	mm	280
Width in number of modular spacings		