## DATASHEET - P3-63/M4/K2-PG/N/HI11

Main switch, P3, 63 A, rear mounting, 3 pole + N, 1 N/O, 1 N/C, STOP function, Lockable in the 0 (Off) position, With metal shaft for a control panel depth of 400 mm



Part no.

P3-63/M4/K2-PG/N/HI11 172817

General specifications	
Product name	Eaton Moeller® series P3 Main switch
Part no.	P3-63/M4/K2-PG/N/HI11
EAN	4015081694013
Product Length/Depth	340 millimetre
Product height	84 millimetre
Product width	112 millimetre
Product weight	0.65 kilogram
Certifications	IEC/EN 60204 VDE 0660 IEC/EN 60947-3 IEC/EN 60947
Product Tradename	P3
Product Type	Main switch
Product Sub Type	None
Catalog Notes	Rated Short-time Withstand Current (Icw) for a time of 1 second
Features & Functions	
Features	Version as main switch Version as maintenance-/service switch
Fitted with:	Metal shaft for a control panel depth of 400 mm Black rotary handle and locking ring
Functions	STOP function Interlockable
Locking facility	Lockable in the 0 (Off) position
Number of poles	4
General information	
Degree of protection	NEMA 12
Degree of protection (front side)	IP65
Lifespan, mechanical	100,000 Operations
Mounting method	Rear mounting
Mounting position	As required
Operating frequency	1200 Operations/h
Overvoltage category	III III III III III III III III III II
Pollution degree	3
Rated impulse withstand voltage (Uimp)	6000 V AC
Safe isolation	440 V AC, Between the contacts, According to EN 61140
Safety parameter (EN ISO 13849-1)	B10d values as per EN ISO 13849-1, table C.1
Shock resistance	15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms
Suitable for	Intermediate mounting Ground mounting
Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	50 °C
Ambient operating temperature (enclosed) - min	-25 °C
Ambient operating temperature (enclosed) - max	40 °C
Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
Terminal capacities	
Terminal capacity	1 x (2.5 - 35) mm <sup>2</sup> , solid or stranded 1 x (1.5 - 25) mm <sup>2</sup> , flexible with ferrules to DIN 46228 2 x (1.5 - 6) mm <sup>2</sup> , flexible with ferrules to DIN 46228

	2 x (2.5 - 10) mm <sup>2</sup> , solid or stranded
Tightening torque	3 Nm, Screw terminals
Electrical rating	
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)	640 A
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	600 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	590 A
Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)	340 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	51 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	55 A
Rated operational current (Ie) at AC-3, 500 V	44 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	22.1 A
Rated operational current (Ie) at AC-21, 440 V	63 A
Rated operational current (Ie) at AC-23A, 230 V	63 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V	63 A
Rated operational current (le) at AC-23A, 500 V	63 A
Rated operational current (le) at AC-23A, 690 V	63 A
Rated operational current (Ie) at DC-1, load-break switches I/r = 1 ms	63 A
Rated operational current (Ie) at DC-23A, 24 V	50 A
Rated operational current (Ie) at DC-23A, 48 V	50 A
Rated operational current (Ie) at DC-23A, 60 V	50 A
Rated operational current (Ie) at DC-23A, 120 V	25 A
Rated operational power at AC-3, 380/400 V, 50 Hz	30 kW
Rated operational power at AC-3, 415 V, 50 Hz	30 kW
Rated operational power at AC-3, 500 V, 50 Hz	30 kW
Rated operational power at AC-3, 690 V, 50 Hz	30 kW
Rated operational power at AC-23A, 220/230 V, 50 Hz	18.5 kW
Rated operational power at AC-23A, 400 V, 50 Hz	30 kW
Rated operational power at AC-23A, 500 V, 50 Hz	45 kW
Rated operational power at AC-23A, 690 V, 50 Hz	55 kW
Rated operational voltage (Ue) at AC - max	690 V
Rated uninterrupted current (lu)	63 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
Short-circuit rating	
Rated conditional short-circuit current (Iq)	4 kA (Load side)
Parts dish and there with stand summer (I as )	100 kA (Supply side)
Rated short-time withstand current (Icw)	1.26 kA
Short-circuit protection rating	80 A gG/gL, Fuse, Contacts
Switching capacity	
Load rating	1.6 x I# (with intermittent operation class 12, 40 % duty factor) 2 x I# (with intermittent operation class 12, 25 % duty factor) 1.3 x I# (with intermittent operation class 12, 60 % duty factor)
Number of contacts in series at DC-23A, 24 V	1
Number of contacts in series at DC-23A, 48 V	2
Number of contacts in series at DC-23A, 60 V	2
Number of contacts in series at DC-23A, 120 V	3
Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	800 A
Voltage per contact pair in series	60 V
Contacts	
Control circuit reliability	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
Number of auxiliary contacts (change-over contacts)	0
Number of auxiliary contacts (normally closed contacts)	1
Number of auxiliary contacts (normally open contacts)	1
Actuator	
Actuator color	Gray
Actuator type	Short thumb-grip

esign verification	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	4.5 W
Rated operational current for specified heat dissipation (In)	63 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 observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must 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])

[ARI 000015])		
Version as main switch		Yes
Version as maintenance-/service switch		Yes
Version as safety switch		No
Version as emergency stop installation		No
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 lu	А	63
Rated permanent current at AC-23, 400 V	А	63
Rated permanent current at AC-21, 400 V	А	63
Rated operation power at AC-3, 400 V	kW	30
Rated short-time withstand current lcw	kA	1.26
Rated operation power at AC-23, 400 V	kW	30
Switching power at 400 V	kW	30
Conditioned rated short-circuit current Iq	kA	100
Number of poles		4
Number of auxiliary contacts as normally closed contact		1
Number of auxiliary contacts as normally open contact		1
Number of auxiliary contacts as change-over contact		0
Motor drive optional		No

Device constructionBeideBuilt-in device fixed built-in techniqueSuitable for floor mountingYesSuitable for front mounting 4-holeNoSuitable for front mounting centreNoSuitable for fixet built-in techniqueNoSuitable for fixet built-in techniqueNoSuitable for distribution board installationYesSuitable for intermediate mountingYesColour control elementSol for thumb-gripType of control elementYesInterlockableYesType of electrical connection of main circuitYesType of protection (IP), front sideYesType of protection (IP), front sideYesType of electrical connection (IP), front sideYesType of protection (IP), front sideYesType of electrical connection of main circuitYesType of electrical connection (IP), front sideYesType of electrical connection (IP), front sideYe		
Device constructionImage: ConstructionSuitable for floor mountingFesSuitable for front mounting 4-holeNoSuitable for front mounting centreNoSuitable for front mounting centreNoSuitable for intermediate mountingFesSuitable for intermediate mountingFesColour control elementSolor thumb-gripType of control elementFesSuitable for front mounting circuitFesSuitable for intermediate nountingFesSuitable for intermediate mountingFesSuitable for intermediate mountingFes	Motor drive integrated	No
Suitable for floor mounting   Fes     Suitable for front mounting 4-hole   No     Suitable for front mounting centre   No     Suitable for fint mounting centre   No     Suitable for distribution board installation   No     Suitable for intermediate mounting   Fes     Colour control element   Fes     Type of control element   Soutable     Type of electrical connection of main circuit   Fes     Suitable for intermediate   Screw connection     Interlockable   Screw connection     Type of electrical connection (IP), front side   Fes	Voltage release optional	No
Suitable for front mounting 4-hole   No     Suitable for front mounting centre   No     Suitable for distribution board installation   No     Suitable for intermediate mounting   Mo     Colour control element   Yes     Type of control element   Short thumb-grip     Type of electrical connection of main circuit   Yes     Degree of protection (IP), front side   Solitable	Device construction	Built-in device fixed built-in technique
Suitable for front mounting centre   No     Suitable for distribution board installation   No     Suitable for intermediate mounting   Yes     Colour control element   Grey     Type of control element   Short thumb-grip     Interlockable   Yes     Type of electrical connection of main circuit   Source     Bagee of protection (IP), front side   Source	Suitable for floor mounting	Yes
Suitable for distribution board installation   No     Suitable for intermediate mounting   Yes     Colour control element   Grey     Type of control element   Short thumb-grip     Interlockable   Yes     Type of electrical connection of main circuit   So cew connection     Degree of protection (IP), front side   Image: So cew connection of main circuit	Suitable for front mounting 4-hole	No
Suitable for intermediate mounting   Yes     Colour control element   Grey     Type of control element   Short thumb-grip     Interlockable   Yes     Type of electrical connection of main circuit   Solow     Degree of protection (IP), front side   Solow	Suitable for front mounting centre	No
Colour control element Grey   Type of control element Short thumb-grip   Interlockable Yes   Type of electrical connection of main circuit Screw connection   Degree of protection (IP), front side Image: Strew connection	Suitable for distribution board installation	No
Type of control element Short thumb-grip   Interlockable Yes   Type of electrical connection of main circuit Screw connection   Degree of protection (IP), front side Image: Strew connection	Suitable for intermediate mounting	Yes
Interlockable Yes   Type of electrical connection of main circuit Screw connection   Degree of protection (IP), front side IP65	Colour control element	Grey
Type of electrical connection of main circuit Screw connection   Degree of protection (IP), front side 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