Main switch, T6, 160 A, rear mounting, 6 contact unit(s), 6 pole, 1 N/O, 1 N/C, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position



Part no. T6-160-6/V/SVB/HI11 200619

General specifications	
Product name	Eaton Moeller® series T6 Main switch
Part no.	T6-160-6/V/SVB/HI11
EAN	4015082006198
Product Length/Depth	200 millimetre
Product height	140 millimetre
Product width	225 millimetre
Product weight	2.2 kilogram
Certifications	IEC/EN 60947-3
	IEC/EN 60947 IEC/EN 60204
	VDE 0660
Product Tradename	T6
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 maintenance-/service switch Version as main switch
Fitted with:	Red rotary handle and yellow locking ring
Functions	Interlockable Emergency switching off function
Locking facility	Lockable in the 0 (Off) position
Number of poles	6
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
Number of contact units	6
Operating frequency	50 Operations/h
Overvoltage category	III
Pollution degree	3
Rated impulse withstand voltage (Uimp)	8000 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
Suitable for	Ground mounting Intermediate mounting
Switching angle	90 °
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 70 mm², solid or stranded 1 x 13 x 3 mm Number of segments x width x thickness, copper strip

	2 x 35 mm², solid or stranded 1 x 50 mm², flexible with ferrules to DIN 46228 2 x 25 mm², flexible with ferrules to DIN 46228 2 x 13 x 1.5 mm Number of segments x width x thickness, copper strip
Screw size	M5, Inbus, Terminal screw
Tightening torque	39.8 lb-in, Screw terminals 4.5 Nm, Screw terminals
Electrical rating	
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)	1280 A
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	900 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	880 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	103 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	85 A
Rated operational current (Ie) at AC-3, 500 V	78 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	42 A
Rated operational current (Ie) at AC-21, 440 V	160 A
Rated operational current (Ie) at AC-23A, 230 V	103 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V	105 A
Rated operational current (Ie) at AC-23A, 500 V	106 A
Rated operational current (Ie) at AC-23A, 690 V	42 A
Rated operational current (le) at DC-1, load-break switches l/r = 1 ms	125 A
Rated operational current (Ie) at DC-13, control switches L/R = 50 ms	125 A
Rated operational current (Ie) at DC-23A, 24 V	125 A
Rated operational current (Ie) at DC-23A, 48 V	125 A
Rated operational current (Ie) at DC-23A, 60 V	125 A
Rated operational current (Ie) at DC-23A, 120 V	50 A
Rated operational current (Ie) star-delta at AC-3, 220/230 V	103 A
Rated operational current (Ie) star-delta at AC-3, 380/400 V	85 A
Rated operational current (Ie) star-delta at AC-3, 500 V	78 A
Rated operational current (Ie) star-delta at AC-3, 690 V	42 A
Rated operational power at AC-3, 380/400 V, 50 Hz	45 kW
Rated operational power at AC-3, 415 V, 50 Hz	45 kW
Rated operational power at AC-3, 500 V, 50 Hz	55 kW
Rated operational power at AC-3, 690 V, 50 Hz	37 kW
Rated operational power at AC-23A, 220/230 V, 50 Hz	30 kW
Rated operational power at AC-23A, 400 V, 50 Hz	55 kW
Rated operational power at AC-23A, 500 V, 50 Hz	75 kW
Rated operational power at AC-23A, 690 V, 50 Hz	37 kW
Rated operational power star-delta at 220/230 V, 50 Hz	30 kW
Rated operational power star-delta at 380/400 V, 50 Hz	45 kW
Rated operational power star-delta at 500 V, 50 Hz	55 kW
Rated operational power star-delta at 690 V, 50 Hz	37 kW
Rated uninterrupted current (Iu)	160 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
Short-circuit rating	
Rated conditional short-circuit current (Iq)	30 kA
Rated short-time withstand current (Icw)	3 kA 3 kA, Contacts, 1 second
Short-circuit protection rating	160 A gG/gL, Fuse, Contacts
Switching capacity	
Load rating	1.6 x l# (with intermittent operation class 12, 40 % duty factor) 2 x l# (with intermittent operation class 12, 25 % duty factor) 1.3 x l# (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	3
Number of contacts in series at DC-23A, 120 V	3

Voltage per contact pair in series	
	42 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	Red
Actuator type	Door coupling rotary drive
Design verification	
Equipment heat dissipation, current-dependent Pvid	11 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	11 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 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])

	V
n as main switch	Yes
n as maintenance-/service switch	Yes
n as safety switch	No
n as emergency stop installation	No
n as reversing switch	No
er of switches	1
ated operation voltage Ue AC V	690
operating voltage V	690 - 690
permanent current lu A	160
permanent current at AC-23, 400 V	105

Rated permanent current at AC-21, 400 V	Α	160
Rated operation power at AC-3, 400 V	kW	45
Rated short-time withstand current lcw	kA	3
Rated operation power at AC-23, 400 V	kW	55
Switching power at 400 V	kW	55
Conditioned rated short-circuit current Iq	kA	30
Number of poles		6
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
Motor drive integrated		No
Voltage release optional		No
Device construction		Built-in device fixed built-in technique
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		Yes
Colour control element		Red
Type of control element		Door coupling rotary drive
Interlockable		Yes
Type of electrical connection of main circuit		Screw connection
Degree of protection (IP), front side		IP65
Degree of protection (NEMA)		12