Main switch, T0, 20 A, rear mounting, 2 contact unit(s), 3 pole, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position



Part no. T0-2-1/V/SVB

043619

EL Number 1417045

(Norway)

(Norway)	
General specifications	
Product name	Eaton Moeller® series TO Main switch
Part no.	T0-2-1/V/SVB
EAN	4015080436195
Product Length/Depth	128 millimetre
Product height	74 millimetre
Product width	65 millimetre
Product weight	0.158 kilogram
Certifications	CSA Class No.: 3211-05 CSA UL Category Control No.: NLRV UL File No.: E36332 IEC/EN 60947-3 UL CSA-C22.2 No. 94 UL 60947-4-1 IEC/EN 60204 IEC/EN 60947 CSA File No.: 012528 CSA-C22.2 No. 60947-4-1-14 VDE 0660 CE UL CSA
Product Tradename	ТО
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 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 facility	Lockable in the 0 (Off) position
Number of poles	3
General information	
Degree of protection	NEMA 12
Degree of protection (front side)	IP65
Lifespan, mechanical	400,000 Operations
Mounting method	Rear mounting
Mounting position	As required
Number of contact units	2
Operating frequency	1200 Operations/h
Overvoltage category	III
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	Branch circuits, suitable as motor disconnect, (UL/CSA) Intermediate mounting Ground 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, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Terminal capacities	
Terminal capacity	1 x (0.75 - 2.5) mm², flexible with ferrules to DIN 46228 18 - 14 AWG, solid or flexible with ferrule 2 x (0.75 - 2.5) mm², flexible with ferrules to DIN 46228 2 x (1 - 2.5) mm², solid or stranded 1 x (1 - 2.5) mm², solid or stranded
Screw size	M3.5, Terminal screw
Tightening torque	8.8 lb-in, Screw terminals 1 Nm, Screw terminals
Electrical rating	
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)	100 A
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	110 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	80 A
Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)	60 A
Rated operational current (le) at AC-3, 220 V, 230 V, 240 V	11.5 A
Rated operational current (le) at AC-3, 320 V, 230 V, 240 V Rated operational current (le) at AC-3, 380 V, 400 V, 415 V	11.5 A
Rated operational current (le) at AC-3, 500 V	9 A
Rated operational current (le) at AC-3, 500 V	4.9 A
•	
Rated operational current (le) at AC-21, 440 V	20 A
Rated operational current (Ie) at AC-23A, 230 V	13.3 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V	13.3 A
Rated operational current (Ie) at AC-23A, 500 V	13.3 A
Rated operational current (Ie) at AC-23A, 690 V	7.6 A
Rated operational current (Ie) at DC-1, load-break switches I/r = 1 ms	10 A
Rated operational current (le) at DC-13, control switches L/R = 50 ms	10 A
Rated operational current (le) at DC-21, 240 V	1 A
Rated operational current (Ie) at DC-23A, 24 V	10 A
Rated operational current (le) at DC-23A, 48 V	10 A
Rated operational current (Ie) at DC-23A, 60 V	10 A
Rated operational current (Ie) at DC-23A, 120 V	5 A
Rated operational current (Ie) at DC-23A, 240 V	5 A
Rated operational current (le) star-delta at AC-3, 220/230 V	20 A
Rated operational current (Ie) star-delta at AC-3, 380/400 V	20 A
Rated operational current (le) star-delta at AC-3, 500 V	15.6 A
Rated operational current (le) star-delta at AC-3, 690 V	8.5 A
Rated operational power at AC-3, 380/400 V, 50 Hz	5.5 kW
Rated operational power at AC-3, 415 V, 50 Hz	5.5 kW
Rated operational power at AC-3, 690 V, 50 Hz	4 kW
Rated operational power at AC-23A, 220/230 V, 50 Hz	3 kW
Rated operational power at AC-23A, 400 V, 50 Hz	5.5 kW
Rated operational power at AC-23A, 500 V, 50 Hz	7.5 kW
Rated operational power at AC-23A, 690 V, 50 Hz	5.5 kW
Rated operational power star-delta at 220/230 V, 50 Hz	5.5 kW
Rated operational power star-delta at 380/400 V, 50 Hz	7.5 kW
Rated operational power star-delta at 500 V, 50 Hz	7.5 kW
Rated operational power star-delta at 500 V, 50 Hz	7.5 kW
Rated operational voltage (Ue) at AC - max	690 V
Rated uninterrupted current (Iu)	20 A

Short-circuit rating	
Rated conditional short-circuit current (Iq)	6 kA
Rated short-time withstand current (Icw)	0.32 kA
Short-circuit current rating (basic rating)	320 A, Contacts, 1 second 5 kA, SCCR (UL/CSA)
Short should surround turing (substituting)	50A, max. Fuse, SCCR (UL/CSA)
Short-circuit current rating (high fault)	10 kA, SCCR (UL/CSA) 20 A, Class J, max. Fuse, SCCR (UL/CSA)
Short-circuit protection rating	20 A gG/gL, Fuse, Contacts
Switching capacity	
Load rating	1.6 x l# (with intermittent operation class 12, 40 % duty factor) 1.3 x l# (with intermittent operation class 12, 60 % duty factor) 2 x l# (with intermittent operation class 12, 25 % duty factor)
Number of contacts in series at DC-21A, 240 V	1
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
Number of contacts in series at DC-23A, 240 V	5
Switching capacity (main contacts, general use)	16 A, Rated uninterrupted current max. (UL/CSA)
Switching capacity (auxiliary contacts, general use)	10A, IU, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	A600 (UL/CSA) P300 (UL/CSA)
Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	130 A
Voltage per contact pair in series	60 V
Motor rating	
Assigned motor power at 115/120 V, 60 Hz, 1-phase	0.5 HP
Assigned motor power at 200/208 V, 60 Hz, 1-phase	1 HP
Assigned motor power at 200/208 V, 60 Hz, 3-phase	3 HP
Assigned motor power at 230/240 V, 60 Hz, 1-phase	1.5 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase	3 HP
Assigned motor power at 460/480 V, 60 Hz, 3-phase	7.5 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase	7.5 HP
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)	0
Number of auxiliary contacts (normally open contacts)	0
Actuator	
Actuator color	Red
Actuator type	Door coupling rotary drive
Design verification	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0.6 W
Rated operational current for specified heat dissipation (In)	20 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 a main intenance /service switch Yes Version as a mergency stop installation Yes Version as a mergency stop installation Yes Version as a mergency stop installation Yes We stop and the stop of the s	[AKF060018])		
Version as safety switch Yes Version as emergency stop installation Yes Version as reversing switch Yes Number of switch Yes Max. rated aperation voltage Ue AC Yes Rated operation voltage Ue AC Yes Rated permanent current at AC-23, 400 Y Ae Rated permanent current at AC-23, 400 Y Ae Rated aperation power at AC-23, 400 Y Ae Switching power at 400 Y Ae Switching power at 400 Y Ae Switching power at 400 Y Be Switching power at 400 Y	Version as main switch		Yes
Version as energency stop installation Pes Version as reversing switch No Number of switches V 690 Rated operation voltage Ue AC V 690 Rated operation voltage Ue AC V 690 Rated operation voltage Ue AC A 20 Rated permanent current us AC-21, 400 V A 20 Rated operation power at AC-21, 400 V A 32 Rated operation power at AC-23, 400 V K 32 Rated operation power at AC-23, 400 V KW 55 Rated short-time withstand current low KW 55 Number of auxiliary contact as a normally closed contact KW 55 Number of auxiliary contacts as normally closed contact KW 60 Number of auxiliary contacts as normally open contact KW 60 Motor drive integrated KW 60 Suitable for from mounting KW 60 <td>Version as maintenance-/service switch</td> <td></td> <td>Yes</td>	Version as maintenance-/service switch		Yes
Version as reversing switch 1 Number of switches 1 Max. rated operation voltage UAC V 690-690 Rated operation voltage V 690-690 Rated operation voltage V 690-690 Rated operation voltage A 20 Rated operation power at AC-24,00V A 20 Rated operation power at AC-24,00V M 55 Number of suikilary contacts as normally closed contact M 60 Number of suikilary contacts as normally pen contact M 60 Number of suikilary contacts as change-over contact M 60 Number of suikilary contacts as change-over contact M 60 Voltage integrated M	Version as safety switch		No
Number of switches 1 400 100	Version as emergency stop installation		Yes
Max. rated operation voltage Uo AC V 699 Rated operating voltage V 690 - 690 Rated operating voltage A 20 Rated permanent current at AC-2,400 V A 20 Rated operation power at AC-3,400 V A 30 Rated operation power at AC-3,400 V K AD Rated operation power at AC-3,400 V K AD Rated operation power at AC-3,400 V K AD Rated operation power at AC-23,400 V K AD Rated operation power at AC-23,400 V K AD Switching power at 400 V AD S Conditioned rated short-circuit current lq K B Number of poles B B B Number of auxiliary contacts as normally logen contact B B B Number of auxiliary contacts as normally open contact B B B Motor drive aptional B B B B Motor drive integrated B B B B Suitable for from mounting	Version as reversing switch		No
Rated operating voltage V 690 -690 Rated permanent current lu A 2 Rated permanent current at AC-23, 400 V A 3 Rated operation power at AC-3, 400 V A 32 Rated operation power at AC-3, 400 V KA 0.32 Rated operation power at AC-23, 400 V KA 0.32 Rotted operation power at AC-23, 400 V KA 5.5 Switching power at 400 V KA 6.5 Conditioned rated short-circuit current Iq KA 6.0 Number of poles KA 6.0 Number of auxiliary contacts as normally closed contact KA 0.0 Number of auxiliary contacts as change-over contact KA 0.0 Motor drive optional KA No Suitable for floor mounting KA No Suitable for floor mounting KA No <	Number of switches		1
Rated permanent current lu A 20 Rated permanent current at AC-23, 400 V A 20 Rated permanent current at AC-21, 400 V A 20 Rated permanent current at AC-23, 400 V KM 55 Rated short-time vithstand current lcw KA 032 Rated operation power at AC-23, 400 V KM 5.5 Switching power at 400 V KM 5.5 Conditioned rated short-circuit current lq KA 6 Number of poles KA 6 Number of auxiliary contacts as normally closed contact C 0 Number of auxiliary contacts as normally open contact C 0 Number of auxiliary contacts as normally contacts as change-over contact C 0 Motor drive optional C 0 0 Motor drive integrated No 0 0 Voltage release optional C 0 0 Davice on fortor from monting C 0 0 Suitable for front mounting dentre C 0 0 Suitable for front mounting	Max. rated operation voltage Ue AC	V	690
Rated permanent current at AC-23,400 V A 20 Rated permanent current at AC-21,400 V KW 5.5 Rated short-time withistand current few KW 5.5 Rated short-time withistand current few KW 5.5 Rated operation power at AC-23,400 V KW 5.5 Switching power at 400 V KW 5.5 Conditioned rated short-circuit current fq KW 6 Number of poles KW 5.0 Number of auxiliary contacts as normally closed contact W 0 Number of auxiliary contacts as change-over contact W 0 Motor drive integrated W N No Voltage release optional W No No Device onstruction W No No Suitable for floor mounting W No No Suitable for front mounting entre W No No Suitable for front mounting entre W No No Suitable for front mounting entre W No No Suitable for in	Rated operating voltage	V	690 - 690
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Rated short-time withstand current lew Rated operation power at AC-23,400 V Routed in power at 400 V Routed frated short-circuit current lq Routed frated short-circuit lq Routed frated s	Rated permanent current at AC-21, 400 V	Α	20
Reted operation power at AC-23, 400 V Switching power at 400 V Conditioned rated short-circuit current Iq Number of poles 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 normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Notor drive integrated Notor drive integrated Notoge release optional Notice of from mounting Suitable for front mounting 4-hole Suitable for front mounting entre Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Type of control element Type of electrical connection of main circuit With pre-assembled cabling Degree of protection (IP), front side	Rated operation power at AC-3, 400 V	kW	5.5
Switching power at 400 V KW 5.5 Conditioned rated short-circuit current Iq KA 6 Number of poles F 3 Number of auxiliary contacts as normally closed contact 9 0 Number of auxiliary contacts as change-over contact 9 0 Motor drive integrated 9 No Motor drive integrated 9 No Voltage release optional 9 Built-in device fixed built-in technique Suitable for floor mounting 9 Yes Suitable for front mounting 4-hole 9 No Suitable for intermediate mounting centre 9 No Suitable for intermediate mounting 9 No Colour control element 9 No Interlockable 9 Pe Red Type of clectrical connection of main circuit 9 No No Typ	Rated short-time withstand current lcw	kA	0.32
Conditioned rated short-circuit current Iq KA 6 Number of poles 4 6 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 optional 7 No Motor drive integrated 8 9 No Voltage release optional 8 9 No Device construction 9 9 No Suitable for from mounting 9 9 No Suitable for from mounting 4-hole 9 No No Suitable for distribution board installation 9 No No Suitable for intermediate mounting 9 No No Suitable for intermediate mounting 9 No No Suitable for intermediate mounting 9 No No Colour control element 9 No No Type of control element 9 No No	Rated operation power at AC-23, 400 V	kW	5.5
Number of poles 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 open contact Number of auxiliary contact sachange of a No N	Switching power at 400 V	kW	5.5
Number of auxiliary contacts as normally closed contact 0 Number of auxiliary contacts as normally open contact 6 Number of auxiliary contacts as change-over contact 6 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 find mounting centre No Suitable for distribution board installation Yes Suitable for intermediate mounting Yes Colour control element Yes Type of control element Yes Type of control element Yes Type of electrical connection of main circuit Yes Surface of lectrical connection of main circuit Yes With pre-assembled cabling No Degree of protection (IP), front side Yes Screw connection Yes Screw connection Yes Screw connection Yes Yes Yes <	Conditioned rated short-circuit current Iq	kA	6
Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Motor drive optional Motor drive integrated No No No No No No Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for front mounting centre Suitable for front mounting centre Suitable for distribution board installation Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit With pre-assembled cabling Degree of protection (IP), front side	Number of poles		3
Number of auxiliary contacts as change-over contact Motor drive optional Motor drive integrated No No No No No Device construction Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for firont mounting centre Suitable for front mounting centre Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting Suitable for intermediate mounting Suitable for intermediate mounting Suitable for literatediate mounting Suitable for intermediate mounting Suitable for intermediate mounting Suitable for literatediate mounting No Suitable for front mounting tentre Suitable for fixed built-in technique No No Suitable fixed built-in technique No No Suitable fixed built-in technique No Suitable for fixed built-in technique No Suitable for fixed built-in technique No Suitable for fixed built-in technique No Sui	Number of auxiliary contacts as normally closed contact		0
Motor drive optional Motor drive integrated No No Voltage release optional No Device construction Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for intermediate mounting Colour control element Suitable for intermediate mounting Suitable for front mounting centre Suitable for front mounting centre Suitable for feve debuilt-in technique Suitable for feve duilt-in technique Su	Number of auxiliary contacts as normally open contact		0
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Voltage release optionalNoDevice constructionBuilt-in device fixed built-in techniqueSuitable for floor mountingYesSuitable for front mounting 4-holeNoSuitable for front mounting centreNoSuitable for distribution board installationNoSuitable for intermediate mountingYesColour control elementRedType of control elementDoor coupling rotary driveInterlockableYesType of electrical connection of main circuitScrew connectionWith pre-assembled cablingNoDegree of protection (IP), front sideIP65	Motor drive optional		No
Device construction Suitable for floor mounting Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for fort mounting centre Suitable for distribution board installation Suitable for intermediate mounting Suitable for front mounting centre Suitable for intermediate mounting Suitable for intermediate mounting Suitable for intermediate mounting Suitable for front mounting centre Suitable for fort mounting centre Suitable	Motor drive integrated		No
Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for distribution board installation Suitable for distribution board installation 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 With pre-assembled cabling Degree of protection (IP), front side Yes Yes Screw connection No 1P65	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 With pre-assembled cabling Degree of protection (IP), front side No Suitable for intermediate mounting Yes Colour control element No No Suitable for intermediate mounting No	Device construction		Built-in device fixed built-in technique
Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit With pre-assembled cabling Degree of protection (IP), front side No No Red Red Poor coupling rotary drive Yes Screw connection Screw connection No IP65	Suitable for floor mounting		Yes
Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit With pre-assembled cabling Degree of protection (IP), front side No No No No No No No No No N	Suitable for front mounting 4-hole		No
Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit With pre-assembled cabling Degree of protection (IP), front side Yes Yes Screw connection No IP65	Suitable for front mounting centre		No
Colour control element Type of control element Interlockable Type of electrical connection of main circuit With pre-assembled cabling Degree of protection (IP), front side Red Poor coupling rotary drive Yes Screw connection Yes Screw connection No IP65	Suitable for distribution board installation		No
Type of control element Interlockable Type of electrical connection of main circuit With pre-assembled cabling Degree of protection (IP), front side Degree of protection (IP), front side Door coupling rotary drive Yes Screw connection No Degree of protection (IP), front side Door coupling rotary drive Yes Yes No Degree of protection (IP), front side Door coupling rotary drive Yes Yes Door coupling rotary drive	Suitable for intermediate mounting		Yes
Interlockable Yes Type of electrical connection of main circuit Screw connection With pre-assembled cabling No Degree of protection (IP), front side IP65	Colour control element		Red
Type of electrical connection of main circuit With pre-assembled cabling No Degree of protection (IP), front side Electrical connection of main circuit No IP65	Type of control element		Door coupling rotary drive
With pre-assembled cabling No Degree of protection (IP), front side IP65	Interlockable		Yes
Degree of protection (IP), front side	Type of electrical connection of main circuit		Screw connection
	With pre-assembled cabling		No
Degree of protection (NEMA) 12	Degree of protection (IP), front side		IP65
	Degree of protection (NEMA)		12

Width	r	mm	65
Height	r	mm	74
Depth	r	mm	128
Width in number of modular spacings			