

**Main switch, 16 A, surface mounting, 3 pole + N, Emergency switching off function, Lockable in the 0 (Off) position, with push-through cable entry diaphragm., with assembly sheet screen**

**Part no. J16/R/N  
199729**

Product name	Eaton J-Range enclosed switch-disconnector
Part no.	J16/R/N
EAN	5027590551977
Product Length/Depth	115 millimetre
Product height	180 millimetre
Product width	100 millimetre
Product weight	0.447 kilogram
Certifications	VDE 0660 IEC/EN 60947-3 IEC/EN 60204 IEC/EN 60947
Product Tradename	J-Range
Product Type	Enclosed switch-disconnector
Product Sub Type	None
Catalog Notes	Rated Short-time Withstand Current (Icw) for a time of 1 second
Features	Version as emergency stop installation Version as main switch Version as safety switch Version as maintenance-/service switch
Fitted with:	Assembly sheet screen Push-through cable entry diaphragm Red rotary handle and yellow locking ring
Functions	Interlockable Emergency switching off function
Locking facility	Lockable in the 0 (Off) position
Number of poles	Four-pole
Degree of protection	NEMA 12
Degree of protection (front side)	IP65
Lifespan, mechanical	300,000 Operations
Mounting method	Surface mounting
Mounting position	As required
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	Ground mounting
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 capacity	2 x (1 - 4) mm <sup>2</sup> , flexible with ferrules to DIN 46228 1 x (1 - 4) mm <sup>2</sup> , flexible with ferrules to DIN 46228 2 x (1.5 - 6) mm <sup>2</sup> , solid or stranded 1 x (1.5 - 10) mm <sup>2</sup> , solid or stranded
Screw size	M4, Terminal screw

Tightening torque		1.6 Nm, Screw terminals
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)		260 A
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)		300 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)		290 A
Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)		250 A
Rated operational current (Ie) at AC-21, 440 V		16 A
Rated operational current (Ie) at DC-1, load-break switches I/r = 1 ms		16 A
Rated operational power at AC-3, 380/400 V, 50 Hz		0 kW
Rated operational power at AC-23A, 400 V, 50 Hz		7 kW
Rated operational voltage (Ue) at AC - max		690 V
Rated uninterrupted current (Iu)		16 A
Uninterrupted current		Rated uninterrupted current Iu is specified for max. cross-section.
Rated conditional short-circuit current (Iq)		80 kA
Rated short-time withstand current (Icw)		0.64 kA 640 A, Contacts, 1 second
Short-circuit protection rating		50 A gG/gL, Fuse, Contacts
Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)		320 A
Voltage per contact pair in series		60 V
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		Door coupling rotary drive

## Technical data ETIM 8.0

Low-voltage industrial components (EG000017) / Switch disconnecter (EC000216)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ecI@ss10.0.1-27-37-14-03 [AKF060013])		
Version as main switch		Yes
Version as maintenance-/service switch		Yes
Version as safety switch		Yes
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	415 - 690
Rated permanent current Iu	A	16
Rated permanent current at AC-23, 400 V	A	
Rated permanent current at AC-21, 400 V	A	16
Rated operation power at AC-3, 400 V	kW	0
Rated short-time withstand current Icw	kA	0.64
Rated operation power at AC-23, 400 V	kW	7
Switching power at 400 V	kW	
Conditioned rated short-circuit current Iq	kA	80
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			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