

**Main switch, T8, 315 A, rear mounting, 3 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. T8-3-8342/V/SVB/HI11**  
**Catalog No. 200620**

### Delivery program

Product range			Main switch maintenance switch Repair switch
Part group reference			T8
Stop Function			Emergency switching off function
Number of poles			With red rotary handle and yellow locking ring 6 pole
<b>Auxiliary contacts</b>			
		N/O	1
		N/C	1
Locking facility			Lockable in the 0 (Off) position
Degree of Protection			Front IP65
Design			rear mounting
Switching angle		°	90
Design number			8342
<b>Motor rating AC-23A, 50 - 60 Hz</b>			
400 V	P	kW	132
Rated uninterrupted current	$I_u$	A	315
Note on rated uninterrupted current $I_u$			Rated uninterrupted current $I_u$ is specified for max. cross-section. Open = 315, enclosed= 275 A
Number of contact units		contact unit(s)	3

### Technical data

#### General

Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204 Switch-disconnector according to IEC/EN 60947-3
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature			
Open		°C	-25 - +50
Enclosed		°C	-25 - +40
Overvoltage category/pollution degree			III/3
Rated impulse withstand voltage	$U_{imp}$	V AC	8000
Mounting position			As required

#### Contacts

<b>Mechanical variables</b>			
Number of poles			6 pole
Auxiliary contacts			
		N/O	1
		N/C	1
<b>Electrical characteristics</b>			
Rated operational voltage	$U_e$	V AC	690
Rated uninterrupted current	$I_u$	A	315
Note on rated uninterrupted current $I_u$			Rated uninterrupted current $I_u$ is specified for max. cross-section.

			Open = 315, enclosed= 275 A
Load rating with intermittent operation, class 12			
AB 25 % DF		x I <sub>e</sub>	2
AB 40 % DF		x I <sub>e</sub>	1.6
AB 60 % DF		x I <sub>e</sub>	1.3
Short-circuit rating			
Fuse		A gG/gL	315
Rated short-time withstand current (1 s current)	I <sub>cw</sub>	A <sub>rms</sub>	4200
Note on rated short-time withstand current I <sub>cw</sub>			Current for a time of 1 second
Rated conditional short-circuit current	I <sub>q</sub>	kA	5
<b>Switching capacity</b>			
cos φ rated making capacity as per IEC 60947-3		A	2390
Rated breaking capacity cos φ to IEC 60947-3		A	
230 V		A	1910
400/415 V		A	1800
500 V		A	1200
690 V		A	420
Safe isolation to EN 61140			
between the contacts		V AC	440
Current heat loss per contact at I <sub>e</sub>		W	11
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V)		CO	0.2
Lifespan, mechanical	Operations	x 10 <sup>6</sup>	> 0.1
Maximum operating frequency	Operations/h		50
<b>AC</b>			
<b>AC-3</b>			
Rating, motor load switch	P	kW	
220 V 230 V	P	kW	37
230 V Star-delta	P	kW	37
400 V 415 V	P	kW	55
400 V Star-delta	P	kW	55
500 V	P	kW	37
500 V Star-delta	P	kW	37
690 V	P	kW	37
690 V Star-delta	P	kW	37
Rated operational current motor load switch			
230 V	I <sub>e</sub>	A	126
400V 415 V	I <sub>e</sub>	A	105
400 V star-delta	I <sub>e</sub>	A	105
500 V	I <sub>e</sub>	A	78
500 V star-delta	I <sub>e</sub>	A	78
690 V	I <sub>e</sub>	A	42
<b>AC-23A</b>			
Motor rating AC-23A, 50 - 60 Hz	P	kW	
230 V	P	kW	75
400 V 415 V	P	kW	132
500 V	P	kW	132
690 V	P	kW	37
Rated operational current motor load switch			
230 V	I <sub>e</sub>	A	239
400 V 415 V	I <sub>e</sub>	A	245
500 V	I <sub>e</sub>	A	184
690 V	I <sub>e</sub>	A	42
<b>DC</b>			
DC-1, Load-break switches L/R = 1 ms			

Rated operational current	$I_e$	A	315
Voltage per contact pair in series		V	42
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	$I_e$	A	250
Contacts		Quantity	1
48 V			
Rated operational current	$I_e$	A	250
Contacts		Quantity	2
60 V			
Rated operational current	$I_e$	A	125
Contacts		Quantity	3
120 V			
Rated operational current	$I_e$	A	50
Contacts		Quantity	3
DC-13, Control switches L/R = 50 ms			
Rated operational current	$I_e$	A	250
Control circuit reliability at 24 V DC, 10 mA	Fault probability	$H_F$	$< 10^{-5}$ , $< 1$ failure in 100,000 switching operations

### Terminal capacities

Solid or stranded		mm <sup>2</sup>	185
Flat conductor connection with busbars		mm <sup>2</sup>	1 x (25 x 5) 2 x (20 x 3)
Terminal screw			M12
Tightening torque for terminal screw		Nm	14

### Technical safety parameters:

Notes			B10 <sub>d</sub> values as per EN ISO 13849-1, table C1
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### Rating data for approved types

Terminal capacity			
Terminal screw			M12
Tightening torque		lb-in	125

## Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	$I_n$	A	315
Heat dissipation per pole, current-dependent	$P_{vid}$	W	11
Equipment heat dissipation, current-dependent	$P_{vid}$	W	0
Static heat dissipation, non-current-dependent	$P_{vs}$	W	0
Heat dissipation capacity	$P_{diss}$	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	50
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties		
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 disconnecter (EC000216)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ec@ss10.0.1-27-37-14-03 [AKF060013])			
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 U <sub>e</sub> AC	V		690
Rated operating voltage	V		690 - 690
Rated permanent current I <sub>u</sub>	A		315
Rated permanent current at AC-23, 400 V	A		245
Rated permanent current at AC-21, 400 V	A		315
Rated operation power at AC-3, 400 V	kW		55
Rated short-time withstand current I <sub>cw</sub>	kA		4.2
Rated operation power at AC-23, 400 V	kW		132
Switching power at 400 V	kW		132
Conditioned rated short-circuit current I <sub>q</sub>	kA		5
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