DATASHEET - T5-3-8342/I5



On-Off switch, T5, 100 A, surface mounting, 3 contact unit(s), 6 pole, with black thumb grip and front plate $\frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \right) \left(\frac{1}{2} \right$



Part no. T5-3-8342/I5 Catalog No. 207267



Similar to illustration

Delivery program

Delivery program			
Product range			On-Off switch
Part group reference			T5
			with black thumb grip and front plate
Number of poles			6 pole
Degree of Protection			IP65
			totally insulated
Design			surface mounting
Contact sequence			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Switching angle		0	90
Switching performance			maintained
Design number			8342
Front plate no.			FS 908
front plate			0-1
Motor rating AC-23A, 50 - 60 Hz			
400 V	Р	kW	55
Rated uninterrupted current	Iu	Α	100
Note on rated uninterrupted current !u			Rated uninterrupted current I _u is specified for max. cross-section.
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		
Enclosed	°C	-25 - +40

Overvoltage category/pollution degree			III/3
Rated impulse withstand voltage	11.	V AC	6000
	U _{imp}		
Mechanical shock resistance		g	15
Mounting position			As required
Contacts			
Mechanical variables			
Number of poles			6 pole
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	lu	Α	100
Note on rated uninterrupted current !u			Rated uninterrupted current I_u is specified for max. cross-section.
Load rating with intermittent operation, class 12			
AB 25 % DF		x l _e	2
AB 40 % DF		x l _e	1.6
AB 60 % DF		x I _e	13
		^ 'e	1.0
Short-circuit rating			
Fuse		A gG/gL	
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	1700
Note on rated short-time withstand current lcw			Current for a time of 1 second
Rated conditional short-circuit current	Iq	kA	2
Switching capacity			
$\cos \phi$ rated making capacity as per IEC 60947-3		Α	950
Rated breaking capacity cos φ to IEC 60947-3		Α	
230 V		Α	760
400/415 V		Α	740
500 V		Α	590
690 V		Α	420
Safe isolation to EN 61140			
between the contacts		V AC	440
Current heat loss per contact at l _e		W	7.5
Current heat loss per auxiliary circuit at I _e (AC-15/230 V)		CO	7.5
Lifespan, mechanical	0		
•	Operations	x 10 ⁶	> 0.5
Maximum operating frequency	Operations/h		1200
AC			
AC-3			
Rating, motor load switch	P	kW	
220 V 230 V	P	kW	22
230 V Star-delta	Р	kW	30
400 V 415 V	Р	kW	30
400 V Star-delta	Р	kW	45
500 V	Р	kW	30
500 V Star-delta	Р	kW	45
690 V	P	kW	15
690 V Star-delta	P	kW	22
		KAA	
Rated operational current motor load switch		٨	71
230 V	l _e	A	71
230 V star-delta	l _e	Α	100
400V 415 V	l _e	Α	55
400 V star-delta	l _e	Α	95.3
500 V	l _e	Α	44
500 V star-delta	I _e	Α	76.2
690 V		A	17
	le		
690 V star-delta	l _e	Α	29.4
AC-23A			

Motor rating AC-23A, 50 - 60 Hz	P	kW	
230 V	P	kW	30
400 V 415 V	P	kW	55
500 V	P	kW	37
690 V	P	kW	30
Rated operational current motor load switch			
230 V	l _e	Α	100
400 V 415 V	le	Α	100
500 V	I _e	Α	55
690 V	l _e	Α	32
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	Ie	Α	80
Voltage per contact pair in series		V	60
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 ²	1 x (2,5 - 35) 2 x (2,5 - 16)
Flexible with ferrules to DIN 46228		mm ²	1 x (1 - 25) 2 x (1.5 - 10)
Terminal screw			M6
Tightening torque for terminal screw		Nm	4
Technical safety parameters:			
Notes			B10 _d values as per EN ISO 13849-1, table C1
Rating data for approved types			
Terminal capacity			
Terminal screw			M6

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	100
Heat dissipation per pole, current-dependent	P _{vid}	W	7.5
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	40
C/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.
$10.2.3.3\mbox{Verification}$ 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.
10.5.4 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.

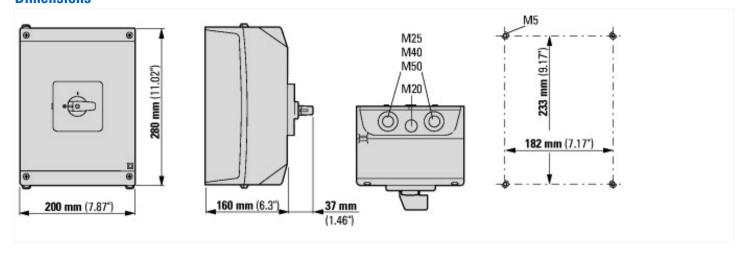
Technical data ETIM 7.0

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])

Version as main wortch Monomorphisms of the properties witch Mon	[AKF060013])		
Version as safety switch No Version as senegency stop installation No Version as reversing switch No Warsion as reversing switch No Max. rated operation voltage Ue AC V 680 Rated operating voltage V 80 589 Rated operating voltage A 10 A Rated permanent current at AC-23, 400 V A 100 Rated permanent current at AC-24, 400 V A 100 Rated permanent current at AC-24, 400 V A 100 Rated spermanent current at AC-24, 400 V A 100 Rated spermanent current at AC-24, 400 V A 10 Rated spermanent current at AC-24, 400 V A 10 Rated spermaticut current to A N 5 Rated spermaticut current to A N 5 Conditioned rated short-circuit current to A Q 2 Number of auxiliary contacts as normally closed contact A Q 2 Number of auxiliary contacts as normally open contact B Q	Version as main switch		No
Version as emergency stop installation	Version as maintenance-/service switch		No
Version as reversing switch Moment of switches 1 Max. ract operation voltage Ue AC V 69-69-80 Rated operation voltage Ue AC V 69-80-90 Rated operation voltage V 80-90-90 Rated operation voltage V 90-90 Rated operation router at AC-23,400 V A 100-00 Rated operation power at AC-23,400 V A 100-00 Rated operation power at AC-23,400 V A 30-00 Rated operation power at AC-23,400 V A 30-00 Switching power at 400 V B 30-00 Conditioned rated short-circuit current lq A 30-00 Number of auxiliary contacts as normally obsed contact B 40-00 Number of auxiliary contacts as normally open contact B 40-00 Motor drive optional B 40-00 40-00 Motor drive optional B 40-00 40-00 Voltage release optional B 40-00 40-00 Suitable for ground mounting B 40-00 40-00 Suitable for front	Version as safety switch		No
Number of switches I	Version as emergency stop installation		No
Max. ratid operation voltage Un AC V 680 Rated operating voltage V 890 - 680 Rated permanent current un A 100 Rated permanent current at AC-23, 400 V A 100 Rated operation power at AC-3, 400 V AW 30 Rated operation power at AC-3, 400 V AW 55 Rated short-time withstand current low AW 55 Rated short-time village and short-time village and short-circuit current lq AW 50 Switching power at 400 V AW 50 Switching power at 400 V AW 50 Conditioned rated short-circuit current lq AW 50 Number of auxiliary contacts as normally closed contact AW 6 Number of auxiliary contacts as normally closed contact AW 60 Motor drive integrated AW 60 Motor drive integrated AW 70 Motor drive integrated AW 70 Voltage release optional AW 70 Suitable for from nounting 4-bel AW 70 Su	Version as reversing switch		No
Rated operating voltage V 890 - 890 Rated permanent current Iu A 100 Rated permanent current at AC-23, 400 V A 100 Rated permanent current at AC-23, 400 V A 100 Rated short-ine withstand current at AC-23, 400 V A 17 Rated short-ine withstand current two A 18 Rated short-ine withstand current two B A 17 Rated short-ine withstand current two B B 2 2 Switching power at 400 V W 55 4 2 4 10 4 10 4 10	Number of switches		1
Rated permanent current lu A 100 Rated permanent current at AC-23,400 V A 100 Rated permanent current at AC-24,000 V A 100 Rated permanent current at AC-24,000 V A 100 Rated operation power at AC-23,400 V A 17 Rated operation power at AC-23,400 V W 55 Switching power at 400 V W 55 Conditioned rated short-circuit current Iq W 5 Number of polos K 2 6 Number of auxiliary contacts as normally closed contact W 5 Number of auxiliary contacts as normally open contact W 6 Number of auxiliary contacts as change-over contact W 9 No Motor drive optional W No No Motor drive optional W No No Notage release optional W No No Suitable for fort mounting 4-tole W No No Suitable for front mounting 4-tole W No No Suitable fo	Max. rated operation voltage Ue AC	V	690
Rated permanent current at AC-23, 400 V A 100 Rated permanent current at AC-21, 400 V A 100 Rated operation power at AC-3, 400 V KW 30 Rated short-time withstand current lcw KA 1.7 Rated operation power at AC-23, 400 V KW 55 Switching power at 400 V KW 55 Conditioned rated short-circuit current lq KA 2 Number of baudilary contacts as normally closed contact W 6 Number of auxiliary contacts as normally open contact W 0 Number of auxiliary contacts as change-over contact W 0 Motor drive optional W No Motor drive optional W No Motor drive integrated W No Voltage release optional W No Suitable for ground mounting W No Suitable for front mounting centre W No Suitable for front mounting centre No No Suitable for firent mounting centre No No Suitable for inter	Rated operating voltage	V	690 - 690
Rated permanent current at AC-21, 400 V A 100 Rated operation power at AC-3, 400 V kW 30 Rated short-time withstand current lcw kW 17 Rated operation power at AC-23, 400 V kW 55 Switching power at 400 V kW 55 Conditioned rated short-circuit current lq kW 2 Number of poles 6 6 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as normally open contact 0 0 Motor drive optional W No Motor drive optional W No Motor drive optional W No Voltage release optional W No Suitable for ground mounting W No Suitable for front mounting 4-hole W No Suitable for front mounting entre W No Suitable for intermediate mounting W No Suitable for intermediate mounting W No Suitable for intermediate mounting W	Rated permanent current lu	Α	100
Rated operation power at AC-3, 400 V kW 30 Rated short-time withstand current lew kA 1.7 Rated operation power at AC-23, 400 V kW 55 Switching power at 400 V kW 55 Conditioned rated short-circuit current lq kA 2 Number of poles KA 2 Number of poles C 6 Number of auxiliary contacts as normally closed contact C 0 Number of auxiliary contacts as change-over contact C 0 Motor drive optional C No Motor drive integrated No No Voltage release optional C Complete device in housing Suitable for ground mounting Yes No Suitable for front mounting - hole P No Suitable for front mounting centre No No Suitable for fort intermediate mounting No No Suitable for intermediate mounting No No Suitable for intermediate mounting No No Suitable for intermediate mounting	Rated permanent current at AC-23, 400 V	Α	100
Rated short-time withstand current low Rated operation power at AC-23, 400 V Rwitching power at	Rated permanent current at AC-21, 400 V	Α	100
Rated operation power at AC-23, 400 V Switching power at 400 V Conditioned rated short-circuit current lq Number of poles Number of poles Number of auxiliary contacts as normally closed contact 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 Motor drive optional Motor drive integrated Notor drive integrated Notoge release optional Device construction Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for intermediate mounting Suitable for intermediate mounting Suitable for intermediate mounting Colour control element Type of control element Type of control element Type of electrical connection of main circuit Degree of protection (IP), front side	Rated operation power at AC-3, 400 V	kW	30
Switching power at 400 V kW 55 Conditioned rated short-circuit current Iq kA 2 Number of poles 6 6 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as normally open contact 0 0 Number of auxiliary contacts as change-over contact 0 0 Motor drive optional No No Motor drive integrated No Complete device in housing Voltage release optional Complete device in housing Suitable for ground 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 No Type of control element Toggle Interlockable No Type of electrical connection of main circuit Serew connection Degree of protection (IP), front side FeS	Rated short-time withstand current lcw	kA	1.7
Conditioned rated short-circuit current Iq KA 2 Number of poles 6 6 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as normally open contact 0 0 Mumber of auxiliary contacts as change-over contact 0 0 Motor drive optional No 0 Motor drive integrated No 0 Voltage release optional No Complete device in housing Suitable for ground mounting Yes No Suitable for front mounting 4-hole No No Suitable for fint mounting centre No No Suitable for distribution board installation No No Suitable for intermediate mounting No No Colour control element No Black Type of control element Type of control element No Type of electrical connection of main circuit No Screw connection Type of electrical connection of main circuit Serve connection Serve connection Type of electrical connection of main circui	Rated operation power at AC-23, 400 V	kW	55
Number of poles Number of auxiliary contacts as normally closed 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 Notor drive optional Motor drive integrated No No No No No No No No No N	Switching power at 400 V	kW	55
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Number of auxiliary contacts as change-over contact Motor drive optional Motor drive integrated No Voltage release optional Device construction Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for front mounting centre Suitable for front mounting centre Suitable for fortn mounting centre No Suitable for intermediate mounting No Suitable for intermediate mounting Suitable for intermediate mounting Suitable for intermediate mounting Suitable for intermediate mounting No Suitable for intermediate mounting Suitable for intermediate mounting No Suitable for forth mounting centre No Suitable for forth mounting centre	Number of auxiliary contacts as normally closed contact		0
Motor drive optionalNoMotor drive integratedNoVoltage release optionalNoDevice constructionComplete device in housingSuitable for ground mountingYesSuitable for front mounting 4-holeNoSuitable for front mounting centreNoSuitable for distribution board installationNoSuitable for intermediate mountingNoColour control elementBlackType of control elementToggleInterlockableNoType of electrical connection of main circuitScrew connectionDegree of protection (IP), front sideIP65	Number of auxiliary contacts as normally open contact		0
Motor drive integratedNoVoltage release optionalNoDevice constructionComplete device in housingSuitable for ground mountingYesSuitable for front mounting 4-holeNoSuitable for front mounting centreNoSuitable for distribution board installationNoSuitable for intermediate mountingNoColour control elementBlackType of control elementToggleInterlockableNoType of electrical connection of main circuitScrew connectionDegree of protection (IP), front sideIP65	Number of auxiliary contacts as change-over contact		0
Voltage release optional No Device construction Complete device in housing Suitable for ground 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 Black Type of control element Toggle Interlockable No Type of electrical connection of main circuit Screw connection Degree of protection (IP), front side IP65	Motor drive optional		No
Device construction Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for front mounting centre No 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 Degree of protection (IP), front side Complete device in housing Yes No No No No Suitable for intermediate mounting No Suitable for intermediate mounting No Suitable for intermediate mounting No Type of control element Toggle No Type of electrical connection of main circuit Screw connection IP65	Motor drive integrated		No
Suitable for ground mounting 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 Supe of control element Type of control element No Type of electrical connection of main circuit Degree of protection (IP), front side Yes No No No No Suitable for intermediate mounting No Interlockable No Surew connection	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 No Colour control element Type of control element Interlockable Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side No No No No No No No IP65	Device construction		Complete device in housing
Suitable for front mounting centre No Suitable for distribution board installation No Suitable for intermediate mounting No Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side No No No No No Type of electrical connection of main circuit Degree of protection (IP), front side No IP65	Suitable for ground mounting		Yes
Suitable for distribution board installation No Suitable for intermediate mounting No Colour control element Toggle Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side No Interlockable Interloc	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 Degree of protection (IP), front side No No IP65	Suitable for front mounting centre		No
Colour control element Type of control element Interlockable Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side Black Toggle No Screw connection IP65	Suitable for distribution board installation		No
Type of control element Interlockable Interlockable No Type of electrical connection of main circuit Degree of protection (IP), front side Toggle No Screw connection IP65	Suitable for intermediate mounting		No
Interlockable No Type of electrical connection of main circuit Screw connection Degree of protection (IP), front side IP65	Colour control element		Black
Type of electrical connection of main circuit Degree of protection (IP), front side Screw connection IP65	Type of control element		Toggle
Degree of protection (IP), front side	Interlockable		No
	Type of electrical connection of main circuit		Screw connection
Degree of protection (NEMA) Other	Degree of protection (IP), front side		IP65
	Degree of protection (NEMA)		Other

Dimensions



Additional product information (links)

Display flip catalog page.	http://ecat.moeller.net/flip-cat/?edition=K115A&startpage=130
Technical overview cam switch, switch-disconnector	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.2
System overview cam switch T	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.4
System overview switch-disconnector P	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.6
Key to part numbers Cam switch	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8
Key to part numbers Switch-disconnector	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8
Switches for ATEX	http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html