Specification List Table

Magnetic Starters/Magnetic Contactors (AC operated)

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Frame							T10	T12	T20	T21	
	Applicable standard						JIS	C8201-4-1,IEC60947-4	-1,EN60947-4-1,GB1404	18.4	
lel name	Magnetic Contactors				Non-Reversing		S-T10	S-T12	S-T20	S-T21	
	(Without The			, Open type)	Reversing		S-2×T10	S-2×T12	S-2×T20	S-2×T21	
	Magnetic Starters (With standard 2-element, With Thermal Overload Relays)		Enclosed Open type Combined Thermal		Non-Reversing		MS-T10	MS-T12	_	MS-T21	
					Reversing			_		MS-2×T21	
					Non-Revers	ing	MSO-T10	MSO-T12	MSO-T20	MS0-T21	
					Reversing		MSO-2×T10	MSO-2×T12	MSO-2×T20	MSO-2×T21	
Model					Overload Rela	ays		TH-T18		TH-T25	
2	Magnetic Starters (With 3-element type Thermal		Open type		Non-Revers	_	MSO-T10KP	MSO-T12KP	MSO-T20KP	MSO-T21KP	
					Reversing		MSO-2×T10KP	MSO-2×T12KP	MSO-2×T20KP	MSO-2×T21KP	
			Combin	ed Thermal	Overload Relays			TH-T18KP		TH-T25KP	
	Rated insulation voltage				[V]		690				
	Rated impulse withstand voltage				[kV]		6				+
	Rated frequency					[Hz]					+
Main contact rating	Pollution degree				[· ·=]	3				+	
	Rated operational current / power				220 to 240VAC		2.5/11 [2.2/11]	3.5/13 [2.7/13]	4.5/18 [3.7/18]	5.5/25 [4/20]	
					380 to 440		4/9 [2.7/7]	5.5/12 [4/9]	7.5/18 [7.5/18]	11/23 [7.5/20]	1
					500VA		4/7 [2.7/6]	5.5/9 [5.5/9]	7.5/17 [7.5/17]	11/17 [7.5/17]	
					690VA		4/5	5.5/7	7.5/9	7.5/9	1
	Rated opera	Rated operational current / power Category AC-4 (Three-phase squirrel-cage motor load inching responsibility) [kW/A]				VAC	1.5/8	2.2/11		/18	
	Category A					VAC	2.2/6	4/9		/13	1
						C	2.7/6	5.5/9		/10	1
	Rated operational current / power				100 to 240	VAC		20		32	1
	Trated operational current / power				380 to 440VAC		11 13		3	32	
	Conventional free air thermal current Ith [A]					[A]	20			32	
	Minimum applicable load level						48V 200mA				
				Non-Reversing		1a 1a1b			2a2b		
Auxiliary contact rating		Standa	standard accessory		Reversing (Note 4, N	ata C)	1a×2+2b 1a1b×2+2b		2a2b×2		
	Contact Special Special Max. nu				Non-Revers		1b 2a		_	+	
			accessory		Reversing		1b×2+2b 2a×2+2b		_		
					(Note 4, N						-
	Carra	Max. number additional options			Non-Revers	ing	1				
			· -	clip-on	Reversing Non-Reversing		2				
		(Note 5		Side clip-on		sing	2				
	D	· .		Clip-Ol1	Reversing		2				
	Rated operational current (Category AC-15 : Alternating current coil load) Rated operational current (Category DC-13 : Direct current coil load)				120VAC 240VAC		6 3				
					24VDC		3				-
					110VDC		0.6				+
	Conventional free air thermal current Ith					[A]	10				+
	Minimum applicable load level					[/]	20V 3mA				+
	Mechanical durability [ten thousand times]					imesl	1000				
erformance	Cat						200(Note 9)				1
	Electrical d					Category AC-4 3(Note 9)					
	[ten thousa	[ten thousand times]					50				
					Category AC-1 50 Category AC-3 1800						
<u>۾</u>	Switching frequency [time/hour] Categ						300				
					Category A		1200				1
stic	Coil consumption (Note 7) Inrush [V. Sealed [V.					[VA]	45 75				1
Characteristic						[VA]	7			7	†
Chara						[W]	2.2			2.4	†
	Magnetic Contactors (without Thermal Overload Relays) Non-Reve						36×75×78 43×75×78			63×81×81	1
su su	(Width x Height x Depth) [mm] Open type Magnetic Starters (Width x Height x Depth) [mm] Enclosed Magnetic Starters (Width x Height x Depth) [mm]				Reversing		82×85×78 97×85×1			136×81×81	
side					Non-Revers	ing		45×115×79		63×128×82	1
Outside dimensions					Reversing		90×125×79 97×125×79		25×79	136×138×82	
, ig					Non-Revers	ing	76×16	5×97.5	_	104×176×110	
					Reversing		-	- –		220×192×115	
	IEC 35mm	ting				Possible (excluding Enclosed Magnetic Starters)					

Note 1: The figure in the square brackets indicates the rated current shown on the rating plate of the product at which the category AC-3 opening/closing durability is 2,000,000 times (1,000,000 times for the T20.380W. Refer to the electric durability curve for the life performance

for the T20 380V). Refer to the electric durability curve for the life performance.

Note 2: The content within () of rated capacity and rated operational current is applied to the Magnetic Contactor.

Note 3: The T10 to T50 types can be manufactured with a coil surge absorber-mounted type (
---SA type). The UT-SA21 type can be mounted.

Note 4: +2b of T10 and T12 auxiliary contact arrangements in Reversing type represents b contact built in the UT-ML11 interlock unit.

Note 5: The main unit and auxiliary contact block must be prepared separately and additionally mounted by the user.

Note 6: For auxiliary contact arrangement in Reversing type, X2 is displayed as combined auxiliary contact arrangement of two Magnetic Contactors. Please specify the contact arrangement for which two main units are combined must be designated. In case of 1b x 2 + 2b: 2B

Note 7: Operational coil input and coil consumption are average values in case of applying 220V60Hz to AC200V coil.

Note 8: Refer to pages 36 for the mountable options.

Note 9: 1,000,000 times for T20 AC-3 Class 380V or higher, and 15,000 times for AC-4 Class. 15,000 times for T35 to T100 AC-4 Class 380V or higher.