

3TS Contactor

Rating Ie (AC-3) 415 V, 50 Hz	Built-in aux contacts	Coil voltage AC, 50 Hz	Type code (MLFB)
9 A	1 NO	110 V	3TS30 10-0AF0-08K
	1 NO	230 V	3TS30 10-0AP0-08K
	1 NO	415 V	3TS30 10-0AR0-08K
	1 NC	110 V	3TS30 01-0AF0-08K
	1 NC	230 V	3TS30 01-0AP0-08K
12 A	1 NO	110 V	3TS31 10-0AF0-08K
	1 NO	230 V	3TS31 10-0AP0-08K
	1 NO	415 V	3TS31 10-0AR0-08K
	1 NC	110 V	3TS31 01-0AF0-08K
	1 NC	230 V	3TS31 01-0AP0-08K
18 A	1 NO	110 V	3TS32 10-0AF0-08K
	1 NO	230 V	3TS32 10-0AP0-08K
	1 NO	415 V	3TS32 10-0AR0-08K
	1 NC	110 V	3TS32 01-0AF0-08K
	1 NC	230 V	3TS32 01-0AP0-08K
25 A	–	110 V	3TS33 00-0AF0-08K
	–	230 V	3TS33 00-0AP0-08K
	–	415 V	3TS33 00-0AR0-08K
	–	110 V	3TS34 00-0AF0-08K
	–	230 V	3TS34 00-0AP0-08K
32 A	–	110 V	3TS34 00-0AF0-08K
	–	230 V	3TS34 00-0AP0-08K
	–	415 V	3TS34 00-0AR0-08K
	–	110 V	3TS35 00-0AF0-08K
	–	230 V	3TS35 00-0AP0-08K
40 A	–	110 V	3TS35 00-0AF0-08K
	–	230 V	3TS35 00-0AP0-08K
	–	415 V	3TS35 00-0AR0-08K
	–	110 V	3TS36 00-0AF0-08K
	–	230 V	3TS36 00-0AP0-08K
50 A	–	110 V	3TS36 00-0AF0-08K
	–	230 V	3TS36 00-0AP0-08K
	–	415 V	3TS36 00-0AR0-08K

Main contact kits (set of 6 fixed & 3 moving contacts)

Contact rating	Description	Type code (MLFB)
3TS33	Spare main contact kits	3TS91 33-00 8K
3TS34		3TS91 34-00 8K
3TS35		3TS91 35-00 8K
3TS36		3TS91 36-00 8K
3TS47		3TS91 47-00 8K
3TS48		3TS91 48-00 8K
3TS49		3TS91 49-00 8K
3TS50	3TS91 50-00 8K	

Thermal overload relay

Relay group	Recommended contactor	Current range	Type code (MLFB)
3US50 00	3TS30 3TS31 3TS32	0.8 - 1.25	3US50 00-0K8K
		1.0 - 1.6	3US50 00-1A8K
		1.6 - 2.5	3US50 00-1C8K
		2.5 - 4.0	3US50 00-1E8K
		4.0 - 6.3	3US50 00-1G8K
		6.3 - 10	3US50 00-1J8K
		8 - 12.5	3US50 00-1K8K
		10 - 16	3US50 00-2S8K
		12.5 - 18	3US50 00-2B8K
		12.5 - 20	3US52 00-2B8K
3US52 00	3TS33 3TS34	16 - 25	3US52 00-2C8K
		25 - 32	3US55 00-2D8K
3US55 00	3TS35 3TS36	20 - 32	3US56 00-2D8K
3US56 00		25 - 36	3US56 00-2Q8K
		32 - 40	3US56 00-2R8K
		36 - 45	3US56 00-8M8K
		40 - 57	3US58 00-2T8K
3US58 00	3TS47 3TS48 3TS49 3TS50	50 - 63	3US58 00-2P8K
		57 - 70	3US58 00-2V8K
		63 - 80	3US58 00-2U8K
		70 - 95	3US58 00-8Y8K
		85 - 105	3US58 00-5C8K

Rating Ie (AC-3) 415 V, 50 Hz	Built-in aux contacts	Coil voltage AC, 50 Hz	Type code (MLFB)
65 A	2NO+2NC	110 V	3TS47 22-0AF0-08K
	2NO+2NC	230 V	3TS47 22-0AP0-08K
	2NO+2NC	415 V	3TS47 22-0AR0-08K
75 A	2NO+2NC	110 V	3TS48 22-0AF0-08K
	2NO+2NC	230 V	3TS48 22-0AP0-08K
	2NO+2NC	415 V	3TS48 22-0AR0-08K
85 A	2NO+2NC	110 V	3TS49 22-0AF0-08K
	2NO+2NC	230 V	3TS49 22-0AP0-08K
	2NO+2NC	415 V	3TS49 22-0AR0-08K
105 A	2NO+2NC	110 V	3TS50 22-0AF0-08K
	2NO+2NC	230 V	3TS50 22-0AP0-08K
	2NO+2NC	415 V	3TS50 22-0AR0-08K

Spares coils

Contact rating	Description	Type code (MLFB)
3TS30/31/32/33/34	AC Coils - 50 Hz	3TY74030A..
3TS35/36		3TY74430A..
3TS47/48		3TY74630A..
3TS49/50		3TY74830A..

AC 50Hz coil code

Coil Voltage (V)	110	230	415
Code	FO	PO	RO

Spare arc chamber

Contact rating	Description	Type code (MLFB)
3TS47	Spare arc chamber	3TS93 47-00 8K
3TS48		3TS93 48-00 8K
3TS49		3TS93 49-00 8K
3TS50		3TS93 50-00 8K

Other accessories such as aux contact block, surge suppressors, mech interlock kit remain common with 3TF range.

Individual mounting accessory

Contact rating	Description	Type code (MLFB)
3US50 00	Accessory for individual mounting	3US91 50-008K
3US52 00		3US91 52-008K
3US55 00		3US91 55-008K
3US56 00		3US91 56-008K
3US58 00		3US91 58-008K

Other accessories remain common with 3UA range.

Connector

The 3TS90 connector is used to mount MPCB 3VU on the contactor 3TS which enables mechanical and electrical connection between them.

Benefits:

Direct mounting of 3VU MPCB on 3TS contactor eliminates the need of power wiring and ensures secure connection. In addition, the assembly time and size of the feeder is reduced which results in cost saving. The overall assembly also looks contemporary.



Range:

Size	MPCB		Contactor		MLFB of Connector
	MLFB	Current Rating	MLFB	AC3 Current Rating	
I	3VU13	0.16 to 20A	3TS 30 / 31 / 32	9 / 12 / 18A	3TS90 01-8K
II	3VU13	6 to 25A	3TS 33 / 34	25 / 32A	3TS90 02-8K

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Smart, Easy, Reliable

For more than 110 years, Siemens has been developing and manufacturing industrial control products. We offer a wide product range which fulfills the demands of our customers regarding performance and reliability. Our aim is to make industrial operation easier ensuring flexible mounting, modular construction and high functionality. With 3TS contactors and 3US overload relays Siemens offers a smart, reliable and economical solution to switch and protect your motors up to 55 kW.

3TS Contactors

Range:

- 9A to 105A AC3 (415V)
- Coil voltages: 110V, 230V, 415V AC, 50Hz

Features:

- SIGUT termination technique
- Finger touch proof terminals[§]
- Arc chamber interlock*
- DIN / Screw mounting
- Compact dimensions
- Double break parallel bridge auxiliary contacts

Benefits:

- Ease of wiring (can obviate use of lugs)
- Operator Safety (contactor cannot be switched-on if arc chamber is not fitted properly)

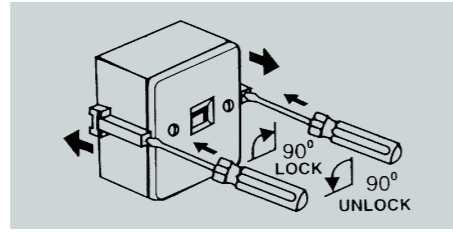
- Flexible mounting
- Space saving
- Unmatched contact reliability (ensures reliable contact at low voltage & low currents)

Standards:

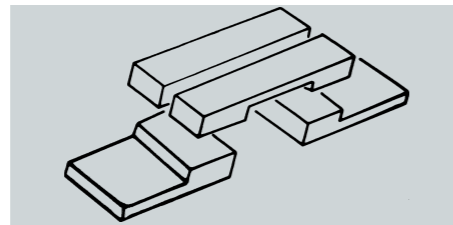
3TS contactors conform to IS 13947 and IEC 60947. They also carry CE mark.

Applications:

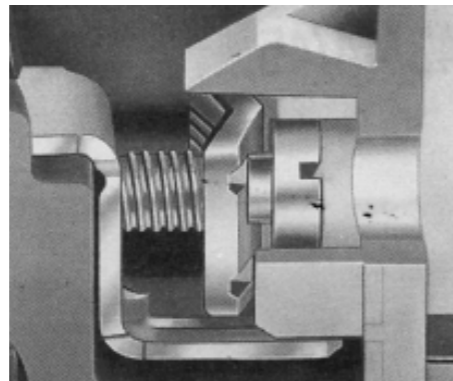
3TS power contactors are suitable for switching motors in pump, fan, compressor, HVAC, machine tool & elevator applications. Also they are suitable for switching resistive loads such as heaters, resistive furnaces & lighting loads & etc.



Arc chamber interlock



Double Break Parallel Bridge Auxiliary Contacts



SIGUT termination



Accessory for DIN / Screw mounting

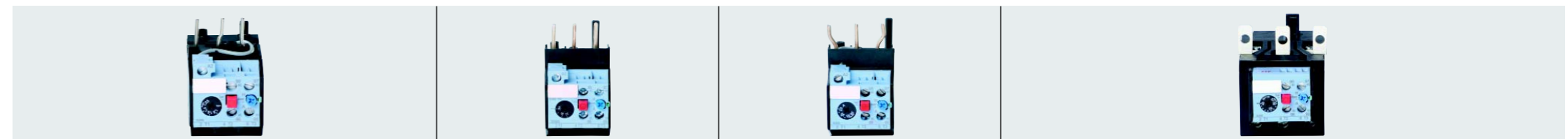
§ 9A to 50A
* 65A and above

3TS Contactor – Technical data



Contactor Type		3TS 30	3TS 31	3TS 32	3TS 33	3TS 34	3TS 35	3TS 36	3TS 47	3TS 48	3TS 49	3TS 50		
Conformance to		IS 13947 / IEC 60 947												
No. of power contacts		3	3	3	3	3	3	3	3	3	3	3		
No. of built-in aux contacts		1NO / 1NC	1NO / 1NC	1NO / 1NC	–	–	–	–	2NO+2NC	2NO+2NC	2NO+2NC	2NO+2NC		
Voltages & temperatures														
Rated impulse voltage	U_{imp}	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV		
Rated insulation voltage	U_i	690 V	690 V	690 V	690 V	690 V	690 V	690 V	1000 V	1000 V	1000 V	1000 V		
Rated operational voltage	U_e	690 V	690 V	690 V	690 V	690 V	690 V	690 V	1000 V	1000 V	1000 V	1000 V		
Service temperature	°C	- 25 to + 55												
Rated operational current														
I_e at 415 V, 50 hz														
	AC-1	25 A	25 A	25 A	42 A	42 A	65 A	65 A	100 A	100 A	120 A	120 A		
	AC-2	9 A	12 A	18 A	25 A	32	40 A	50 A	65 A	75 A	85 A	105 A		
	AC-3	9 A	12 A	18 A	25 A	32	40 A	50 A	65 A	75 A	85 A	105 A		
	AC-4*	3.3	3.3	4.3	7.7 A	8.5 A	15.6 A	18.5 A	24 A	28 A	34 A	42 A		
Switching frequency														
	AC-1	nos.	2000	2000	2000	1500	1500	1500	1200	1000	1000	900		
	AC-2	nos.	1000	1000	1000	750	750	750	600	600	400	350		
	AC-3	nos.	1000	1000	1000	750	750	750	600	1200	1000	1000		
	AC-4	nos.	250	250	250	250	250	250	200	400	300	300		
Mechanical Endurance														
			15 x 10 ⁶											
Coil parameters														
		Voltages available	Uc 110 V, 50 hz; 230 V, 50 hz; 415 V, 50 hz											
Consumption		pick-up	VA	68	68	68	68	68	101	101	183	183	330	
		p.f.		0.79	0.79	0.79	0.82	0.82	0.83	0.83	0.6	0.6	0.5	
		hold-on	VA	10	10	10	10	10	12.1	12.1	17	17	32	
Operating time		p.f.		0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.29	0.29	0.23	
		closing	milli sec	10-25	10-25	10-25	10-25	10-25	13-32	13-32	17-30	17-30	22-35	
		opening	milli sec	4-18	4-18	4-18	5-20	5-20	5-10	5-10	5-25	5-25	5-30	
Limits of operation		pick-up	%ge of Uc	80 to 110										
		drop-off	%ge of Uc	35 to 65										
Conductor cross-sections														
Main conductor														
		Solid	mm ²	2 x (0.5 to 1, 1 to 2.5), 1 x 4			2 x (2.5 to 6)		1 to 16		2 x (6 to 16)		2 x (6 to 16)	
		Finely stranded with end sleeve	mm ²	2 x (0.75 to 2.5)			2 x (1.5 to 4)		1 x (2.5 to 16, 2.5 to 10)		1 x (10 to 35), 2x (10 to 25)		1 x (10 to 35), 2x (10 to 25)	
		Pin end connector	mm ²	1 x (1 to 2.5)			1 x (1 to 6)		2 x (1 to 6)		–		–	
		Solid or stranded	AWG	2 x (18 to 12)			2 x (14 to 10)		2 x (14 to 6)		2 x (10 to 1/10)		2 x (10 to 1/10)	
		Tightening torque	Nm	0.8 to 1.4			1 to 1.5		2.5 to 3.0		4 to 6		4 to 6	
		Finely stranded with cable lug	mm ²											
		Terminal bar (max. width)	mm											
		Solid or stranded	AWG								7 to 1/0		7 to 1/0	
		Tightening torque	Nm								4 to 6		4 to 6	
Auxiliary Conductor														
		Solid	mm ²	2 x (0.5 to 1, 1 to 2.5), 1 x 4			2 x (0.5 to 1, 1 to 2.5), 1 x 4		2 x (0.5 to 1, 1 to 2.5), 1 x 4		2 x (0.5 to 1, 1 to 2.5), 1 x 4		2 x (0.5 to 1, 1 to 2.5), 1 x 4	
		Finely stranded with end sleeve	mm ²	2 x (0.75 to 2.5)			2 x (0.75 to 2.5)		2 x (0.75 to 2.5)		2 x (0.75 to 2.5)		2 x (0.75 to 2.5)	
		Pin end connector	mm ²	1 x (1 to 2.5)			1 x (1 to 2.5)		1 x (1 to 2.5)		1 x (1 to 2.5)		1 x (1 to 2.5)	
		Solid or Stranded	AWG	2 x (18 to 12)			2 x (18 to 12)		2 x (18 to 12)		2 x (18 to 12)		2 x (18 to 12)	
		Tightening torque	Nm	0.8 to 1.4			0.8 to 1.4		0.8 to 1.4		0.8 to 1.4		0.8 to 1.4	

* AC-4 rating for endu. of 0.2 mil



Relay		3US50 00	3US52 00	3US55 00	3US56 00	3US58 00
Rated impulse voltage	U_{imp}	6 kV	6 kV	6 kV	6 kV	6 kV
Rated insulation voltage	U_i	690 V	690 V	690 V	690 V	690 V
Rated operational voltage	U_e	690 V	690 V	690 V	690 V	690 V
Permissible Service Temperature	°C	- 25 to + 55				
Trip Class		10A	10A	10A	10A	10A
Number of Aux Contacts		1NO+1NC	1NO+1NC	1NO+1NC	1NO+1NC	1NO+1NC
Rated Thermal Current I _{th}	A	6	6	6	6	6