

Mitsubishi Series ST / SN AC Contactor, AC Coil ST + SN



Magnetic Contactors Series ST and SN											K
Type ²	Rated Continuous Current	AC-1		AC-3		AC-4		Standard Aux Contacts ¹		Price Each excl. VAT	Order No.
		380 V / 440 V (A)	525 V (A)	380 V / 440 V kW (A)	525 V kW (A)	380 V / 440 V kW (A)	525 V kW (A)	Normally Open	Normally Closed		
ST10	20	11	8	4 (9)	4 (7)	2.2 (6)	2.7 (6)	1	-	R 647.00	ST10__
ST12	20	13	11	5.5 (12)	5.5 (9)	4 (9)	5.5 (9)	1	1	R 890.00	ST12__
ST20	25	20	16	7.5 (18)	7.5 (17)	5.5 (13)	5.5 (10)	1	1	R 1 069.00	ST20__
ST21	32	32	32	11 (23)	11 (17)	5.5 (13)	5.5 (10)	2	2	R 1 449.00	ST21__
ST25	32	32	32	15 (30)	15 (24)	7.5 (17)	7.5 (12)	2	2	R 1 802.00	ST25__
ST35	60	60	60	18.5 (40)	18.5 (32)	11 (24)	11 (17)	2	2	R 2 319.00	ST35__
ST50	80	80	80	22 (50)	25 (38)	15 (32)	15 (24)	2	2	R 2 970.00	ST50__
ST65	100	100	100	30 (65)	37 (60)	22 (47)	22 (38)	2	2	R 3 655.00	ST65__
ST80	120	120	120	45 (85)	45 (75)	30 (62)	30 (45)	2	2	R 5 427.00	ST80__
ST100	150	150	150	55 (105)	55 (85)	37 (75)	37 (55)	2	2	R 6 960.00	ST100__
SN125	150	150	150	60 (120)	60 (90)	22 (90)	22 (90)	2	2	R 7 847.00	SN125__
SN150	200	200	200	75 (150)	90 (140)	30 (110)	37 (80)	2	2	R 11 439.00	SN150__
SN180	260	260	260	90 (180)	110 (180)	37 (150)	45 (140)	2	2	R 12 954.00	SN180__
SN220	260	260	260	132 (250)	132 (200)	45 (180)	55 (140)	2	2	R 14 709.00	SN220__
SN300	350	350	350	160 (300)	160 (250)	60 (220)	60 (200)	2	2	R 26 919.00	SN300__
SN400	450	450	450	220 (400)	225 (350)	75 (300)	90 (250)	2	2	R 34 459.00	SN400__
SN600	800	660	660	330 (630)	330 (500)	110 (400)	130 (350)	2	2	R 47 802.00	SN600__
SN800	1000	800	800	440 (800)	500 (720)	130 (630)	150 (500)	2	2	R 61 459.00	SN800__

Notes:

DIN rail mounting for all contactors up to ST-65

1. Extra auxiliary contact blocks can be added (refer to contactor spares and accessories)
2. When ordering please specify coil voltage e.g. ST10-400

These units have finger protection on terminals as standard

Standard coil voltages are 110 V, 220 V, 400 V and 525 V

Insulation Voltage / V_{ins} : 690 V

Impulse Withstand / V_{imp} : 6 kV

Poles: 3

Note: Ratings based on 1×10^6 operations

Contactor Utilisation Categories (IEC 60947-4)	
Alternating Current	
AC-1	All AC loads with a power factor ≥ 0.80 • heating resistive load
AC-3	Starting and stopping squirrel cage motors • starting ± 7 times rated motor current • stopping the voltage is at $\pm 20\%$ of mains supply voltage • lighting load
AC-4	Plugging and inching of squirrel cage • closing and operating at ± 7 times rated motor current • severe braking
AC-15	Control loads (72 VA) Aux contact ratings AC
Direct Current	
DC-13	Aux contact ratings DC



Mitsubishi Accessories



Accessories													K
Order No	Mechanical Interlock					Front Clip-on Aux Contact Block		Side Clip-on Aux Contact Block		Side Clip-on Aux Contact Block			
	UTML11	UTML21	UTML80	UNML150	UNML220	UTAX2 (1A,1B) UTAX2CX2A (2A) UTAX2CX2B (2B)	UTAX4 (2A,2B) UTAX4CX3A (3A,1B) UTAX4CX4A (4A)	UNAX11 (1A, 1B)	UTAX11 (1A,1B)	UNAX80 (1A,1B)	UNAX150 (1A,1B)	UNAX600 (2A,2B)	
Type	Price Each excl. VAT												
ST10	R 760.00	-	-	-	-	R 363.00	R 477.00	-	R 492.00	-	-	-	
ST12	R 760.00	-	-	-	-	R 363.00	R 477.00	-	R 492.00	-	-	-	
ST20	R 760.00	-	-	-	-	R 363.00	R 477.00	-	R 492.00	-	-	-	
ST21	-	R 974.00	-	-	-	R 363.00	R 477.00	-	R 492.00	-	-	-	
ST25	-	R 974.00	-	-	-	R 363.00	R 477.00	-	R 492.00	-	-	-	
ST35	-	R 974.00	-	-	-	R 363.00	R 477.00	-	R 492.00	-	-	-	
ST50	-	R 974.00	-	-	-	R 363.00	R 477.00	-	R 492.00	-	-	-	
ST65	-	R 974.00	-	-	-	R 363.00	R 477.00	R 492.00	-	-	-	-	
ST80	-	R 974.00	-	-	-	-	-	R 492.00	-	-	-	-	
ST100	-	-	R 942.00	-	-	-	-	-	-	R 476.00	-	-	
SN125	-	-	R 942.00	-	-	-	-	-	-	R 476.00	-	-	
SN150	-	-	-	R 1 247.00	-	-	-	-	-	-	R 510.00	-	
SN180	-	-	-	-	R 1 247.00	-	-	-	-	-	R 510.00	-	
SN220	-	-	-	-	R 1 247.00	-	-	-	-	-	R 510.00	-	
SN300	-	-	-	-	R 1 247.00	-	-	-	-	-	R 510.00	-	
SN400	-	-	-	-	R 1 247.00	-	-	-	-	-	R 510.00	-	
SN600	-	-	-	-	-	-	-	-	-	-	-	R 3 615.00	
SN800	-	-	-	-	-	-	-	-	-	-	-	R 3 615.00	

Notes:

A N/O - Normally open contacts
B N/C - Normally closed contacts



Mitsubishi Series THT / THN Thermal Overload Relays 3 Element Heater Type



THT Range

Type	Contactor Size	Mid Set Amps	Nominal Range Amps	Price Each excl. VAT
THT18KP ¹				K
THT18-0.17	ST10 ST12 ST20	0.17 A	0.14 A to 0.22 A	R 558.00
THT18-0.24		0.24 A	0.2 A to 0.32 A	R 558.00
THT18-0.35		0.35 A	0.28 A to 0.42 A	R 558.00
THT18-0.5		0.5 A	0.4 A to 0.6 A	R 558.00
THT18-0.7		0.7 A	0.55 A to 0.85 A	R 558.00
THT18-0.9		0.9 A	0.7 A to 1.1 A	R 558.00
THT18-1.3		1.3 A	1.0 A to 1.6 A	R 558.00
THT18-1.7		1.7 A	1.4 A to 2.0 A	R 558.00
THT18-2.1		2.1 A	1.7 A to 2.5 A	R 558.00
THT18-2.5		2.5 A	2.0 A to 3.0 A	R 558.00
THT18-3.6		3.6 A	2.8 A to 4.4 A	R 558.00
THT18-5		5 A	4.0 A to 6.0 A	R 558.00
THT18-6.6		6.6 A	5.2 A to 8.0 A	R 558.00
THT18-9		9 A	7.0 A to 11.0 A	R 558.00
THT18-11		11 A	9.0 A to 13.0 A	R 558.00
THT18-15	15 A	12.0 A to 18.0 A	R 558.00	
THT25KP ²				K
THT25-0.24	ST21 ST25 ST35 ST50	0.24 A	0.2 A to 0.32 A	R 722.00
THT25-0.35		0.35 A	0.28 A to 0.42 A	R 722.00
THT25-0.5		0.5 A	0.4 A to 0.6 A	R 722.00
THT25-0.7		0.7 A	0.55 A to 0.85 A	R 722.00
THT25-0.9		0.9 A	0.7 A to 1.1 A	R 722.00
THT25-1.3		1.3 A	1.0 A to 1.6 A	R 722.00
THT25-1.7		1.7 A	1.4 A to 2.0 A	R 722.00
THT25-2.1		2.1 A	1.7 A to 2.5 A	R 722.00
THT25-2.5		2.5 A	2.0 A to 3.0 A	R 722.00
THT25-3.6		3.6 A	2.8 A to 4.4 A	R 722.00
THT25-5		5 A	4.0 A to 6.0 A	R 722.00
THT25-6.6		6.6 A	5.2 A to 8.0 A	R 722.00
THT25-9		9 A	7.0 A to 11.0 A	R 722.00
THT25-11		11 A	9.0 A to 13.0 A	R 722.00
THT25-15		15 A	12.0 A to 18.0 A	R 722.00
THT25-22	22 A	18.0 A to 26.0 A	R 722.00	

Notes:

1. For direct connection to contactors
2. THT25 and THT50 need connecting links sold separately for direct connections to contactors, refer to contactor accessories page



Mitsubishi Series THT / THN Thermal Overload Relays 3 Element Heater Type



Type	Contactor Size	Mid Set Amps	Nominal Range Amps	Price Each excl. VAT
THT50KP ¹				K
THT50-29	ST35 ST50	29 A	24 A to 34 A	R 724.00
THT50-35		35 A	30 A to 40 A	R 724.00
THT50-42		42 A	34 A to 50 A	R 724.00
THT65KP				K
THT65-15	ST65 ST80	15 A	12 A to 18 A	R 1 207.00
THT65-22		22 A	18 A to 26 A	R 1 207.00
THT65-29		29 A	24 A to 34 A	R 1 207.00
THT65-35		35 A	30 A to 40 A	R 1 207.00
THT65-42		42 A	34 A to 50 A	R 1 207.00
THT65-54		54 A	43 A to 65 A	R 1 207.00
THT100KP				K
THT100-67	ST80 ST100	67 A	54 A to 80 A	R 1 207.00
THT100-82		82 A	65 A to 100 A	R 1 207.00
THT100-95		95 A	85 A to 105 A	R 1 207.00
THN120KP				K
THN120-42	SN125 SN150	42 A	34 A to 50 A	R 1 779.00
THN120-54		54 A	43 A to 65 A	R 1 779.00
THN120-67		67 A	54 A to 80 A	R 1 779.00
THN120-82		82 A	65 A to 100 A	R 1 779.00
THN120TAKP				K
THN120-105	SN125 SN150	105 A	85 A to 125 A	R 1 779.00
THN120-125		125 A	100 A to 150 A	R 1 779.00
THN220RHKP				K
THN220-82	SN180 SN220	82 A	65 A to 100 A	R 4 846.00
THN220-105		105 A	85 A to 125 A	R 4 846.00
THN220-125		125 A	100 A to 150 A	R 4 846.00
THN220-150		150 A	120 A to 180 A	R 4 846.00
THN220-180		180 A	140 A to 200 A	R 4 846.00
THN220-210		210 A	170 A to 250 A	R 4 846.00
THN400RHKP ²				K
THN400-150	SN300 SN400	150 A	120 A to 180 A	R 6 197.00
THN400-180		180 A	140 A to 220 A	R 6 197.00
THN400-250		250 A	200 A to 300 A	R 6 197.00
THN400-330		330 A	260 A to 400 A	R 6 197.00

Notes:

1. THT25 and THT50 need connecting links sold separately for direct connections to contactors, refer to contactor accessories page
2. Connecting links included. For contactor size SN220 only.



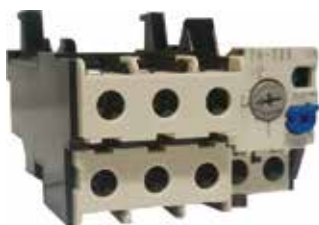
Accessories



Connecting Links for THN Overloads & SN + ST Contactors		K
Type	Contactor Size	Price Each excl. VAT
UN-TH21	Connecting links THT25 & ST21 / ST25	R 252.00
UT-TH50	Connecting links THT25/THT50 & ST35 / ST50	R 294.00
4370000	Connecting links THT100 & ST100+Bracket	R 349.00
4370006	Connecting links THT65/THT100 & ST65 / ST80	R 272.00
BH579N355	Connecting links THN120KP & SN125	R 400.00
BH589N355	Connecting links THN120TAKP & SN150	R 400.00
UT-HZ18	Adaptor block for separate mounting of THT18	R 511.00
UN-TH25	UN-TH25 connecting links	R 293.00

Notes:

THT25 and THT50 need connecting links sold separately for direct connections to contactors, refer to contactor accessories page



Mitsubishi Series ETN



ETN Range

Electronic Motor Protection Relays Type ETN				K2
Type	Control Voltage	Setting Range	Std. Pack	Price Each excl. VAT
ETN60				K2
ETN60-1-110 or 220	110 / 220 V	0.25 A to 1 A	1	R 4 107.00
ETN60-4-110 or 220		1 A to 4 A	1	R 4 107.00
ETN60-8-110 or 220		2 A to 8 A	1	R 4 107.00
ETN60-20-110 or 220		5 A to 20 A	1	R 4 107.00
ETN60-60-110 or 220		15 A to 60 A	1	R 4 107.00
ETN150				K2
ETN150-110 or 220	110 / 220 V	40 A to 150 A	1	R 8 469.00
ETN150-400 or 525	400 / 525 V	40 A to 150 A	1	R 9 520.00
ETN360				K2
ETN360-110 or 220	110 / 220 V	110 A to 360 A	1	R 8 799.00
ETN360-400 or 525	400 / 525 V	110 A to 360 A	1	R 9 799.00

Remote Reset			K2
Type	Item Description	Std. Pack	Price Each excl. VAT
Remote Reset	Remote reset for ETN	1	R 250.00

Notes:

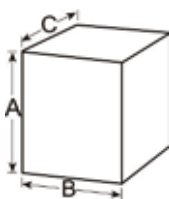
Motor protection relays type ETN feature selectable protection mode, i.e. overload, phase reversal protection with selectable tripping time 600 % of setting

Remote Reset available on request, factory-fitted only - contact CBI for availability



Mitsubishi Series SH-V

	SH-V160	SH-V320	SH-V400	SH-V600
A	210 mm			290 mm
B	210 mm			285 mm
C	210 mm			225 mm



Medium Voltage Vacuum Contactors Series SH-V up to 1500 V									K1
Type ¹	AC-1	AC-3				Coil Voltage (V)	Standard Aux Contacts		Price Each excl. VAT
	Lth (A)	440 V kW (A)	660 V kW (A)	1000 V kW (A)	1500 V kW (A)		Normally Open	Normally Closed	
SH-V160	200	110 (180)	160 (180)	225 (160)	315 (160)	STD: 110 / 220 / 400 / 525	2	2	R 49 512.00
SH-V320	350	200 (320)	315 (320)	450 (320)	700 (320)	STD: 110 / 220 / 400 / 525	2	2	R 49 512.00
SH-V400	450	250 (400)	400 (400)	550 (400)	800 (400)	STD: 110 / 220 / 400 / 525	2	2	R 54 186.00
SH-V600	750	300 (630)	600 (600)	750 (600)	1000 (600)	STD: 110 / 220 / 400 / 525	2	2	R 98 166.00

Note:

1. Specify coil voltages

Spares and Accessories

Vacuum Tube Assembly (Set of 3)					Coils	K1
Type *	Order No.	SHV320TUBE	SHV400TUBE	SHV600TUBE	SN180 C 1 SHV160/320/400	SN300 C 2 SHV600
		Price Each excl. VAT			Price Each excl. VAT	
SH-V160		-	-	-	R 3 264.00	
SH-V320		R 30 415.00	-	-	R 3 264.00	
SH-V400		-	R 30 415.00	-	R 3 264.00	
SH-V600		-	-	R 32 015.00		R 4 292.00

Notes:

* Contact CBI for availability

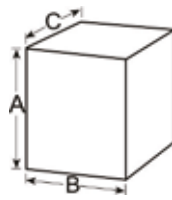
A = Normal Open Contact
B = Normal Closed Contact

1. SH-V coils interchangeable with SN180 coils
2. SH-V coils interchangeable with SN300 coils



Mitsubishi Series VZ

	Series VZ
A	367 mm
B	361 mm
C	238 mm



Medium Voltage Vacuum Contactors Series VZ (Std. 2 No / 2NC Contactor)										K4
Type ^{1 & 2}	Lth (A)	3 Ph. Induction Motor Rating				Transformer Rating				Price Each excl. VAT
		3.3 kV kW	3.3 kV (A)	6.6 kV kW	6.6 kV (A)	3.3 kV kW	3.3 kV (A)	6.6 kV kW	6.6 kV (A)	
VZ2-PE-E10 (110 Vac / Vdc)	200	35 to 75	20	75 to 160	20	5 / 10	0.87 / 1.75	5 / 10	0.44 / 0.87	R 64 515.00
	200	90 to 200	50	185 to 400	50	20 / 30	3.5 / 5.25	20 / 30	1.75 / 2.62	
	200	220 to 400	100	450 to 800	100	50 / 75	8.75 / 13.1	50 / 75	4.37 / 6.56	
	200	450 to 630	150	900 to 1250	150	100 / 150	17.5 / 26.2	100 / 150	8.75 / 13.1	
	200	710 to 750	200	1500	200	200 / 300	35.0 / 52.5	200 / 300	17.5 / 26.2	
	200	-	-	-	-	500 / 750	87.5 / 13.1	500 / 750	43.7 / 65.6	
	200	-	-	-	-	1000	175	1000 / 1500	87.5 / 131	
	200	-	-	-	-	-	-	2000	175	
VZ4-PE-E10 (110 Vac / Vdc)	400	900 to 1250	300	2500	300	1500	262	3000	262	R 88 044.00
	400	1500	400	3000	400	2000	350	4000	350	
VZ2-PE-E20 (220 Vac / Vdc)	200	35 to 75	20	75 to 160	20	5 / 10	0.87 / 1.75	5 / 10	0.44 / 0.87	R 67 699.00
	200	90 to 200	50	185 to 400	50	20 / 30	3.5 / 5.25	20 / 30	1.75 / 2.62	
	200	220 to 400	100	450 to 800	100	50 / 75	8.75 / 13.1	50 / 75	4.37 / 6.56	
	200	450 to 630	150	900 to 1250	150	100 / 150	17.5 / 26.2	100 / 150	8.75 / 13.1	
	200	710 to 750	200	1500	200	200 / 300	35.0 / 52.5	200 / 300	17.5 / 26.2	
	200	-	-	-	-	500 / 750	87.5 / 13.1	500 / 750	43.7 / 65.6	
	200	-	-	-	-	1000	175	1000 / 1500	87.5 / 131	
	200	-	-	-	-	-	-	2000	175	
VZ4-PE-E20 (220 Vac / Vdc)	400	900 to 1250	300	2500	300	1500	262	3000	262	R 92 189.00
	400	1500	400	3000	400	2000	350	4000	350	

(All accessories are factory-fitted only)

Addition of Auxiliary Contacts

Description of Additional Contactors that may be fitted to the Standard Products			K4
Type	Description	Price Each excl. VAT	
VZMOD1	Additional 2N/O and 2N/C contacts with external pre-wired terminal plug	R 6 293.00	
VZMOD2 (110 Vac)	Additional 4N/O and 4N/C contacts with external pre-wired terminal plug	R 9 913.00	
VZMOD3 (220 Vac)	Additional 2N/O and 2N/C contacts with external pre-wired terminal plug	R 9 913.00	

Notes:

- Available coil voltages are:
 - 110 Vac
 - 220 Vac
- Standard aux contacts fitted are 2N/O and 2N/C
 Aux contact ratings are 1 A @ 220 Vac and 110 Vdc
 Extra aux contacts can be fitted
 All accessories are factory-fitted only

VZ2 = 200 A
 VZ4 = 400 A
 E10 = 110 Vac / Vdc control
 E20 = 220 Vac / Vdc control



Terminal Blocks

Terminal Blocks							E
Type	Current Rating (A) Normal vs Max	No. of Ways	Rated Voltage	Dielectric Strength (6 sec)	Max Wire Size mm2	Torque Nm	Price Each excl. VAT
SafeTek15-3	15 (16)	3	600 Vac	2500 Vac	2.5	0.5 - 1.0	R 45.00
SafeTek30-3	30 (40)	3			6	1.4 - 2.0	R 60.00
SafeTek60-1	60 (70)	1			16	2.5 - 3.5	R 38.00
SafeTek80-1	80 (94)	1			25	4.0 - 5.5	R 67.00
SafeTek120-1	120 (132)	1			35 - 70	0.5 - 1.0	R 103.00
SafeTek200-1	200 (240)	1			95 - 120	10 - 12	R 174.00
SafeTek400-1	370 (400)	1			180 - 240	21 - 28	R 466.00
Endcap-High						3.8 - 4.5	R 13.00
Endcap-Low						0.5 - 1.0	R 5.00

Notes:

Contact CBI for availability
Order number = type number

Safetek Adaptive Terminals

- Touch protected
- DIN rail mounting (35 mm)
- 600 Vac
- Secure end stops



Stackable

Build as you wish

