S-N Magnetic Contactors

S-N Magnetic Contactors are designed to conform the relevant IEC recommendations and to the standards of as many countries as possible with the following characteristics:

■By adopting a CAN terminal, there is no need to remove the screws, and losing of the terminal screw by the integrated screw holder and terminal screw, the terminal screw is set in a plastic screw holder, when each pole is moved and the screw loosened, the screw is naturally set in the screw holder;

■The design has been unified for S-N, the front face of the product is a bright white color, making the inside of the panel brighter and providing a clean image;

■By adopting the new extinguishing mechanism,the arc space have to reduced to approximate one-third,the arc blowoff have been changed to further improve safety and space conversation;

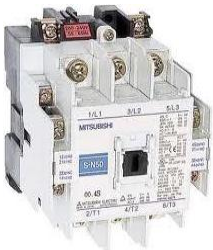
■Medium and large sized models from S-N50 to S-N800, an easy-to-install terminal cover, which lays importance on further safety and is compatible with finger protection, has been prepared;

Technical Data

S-N10

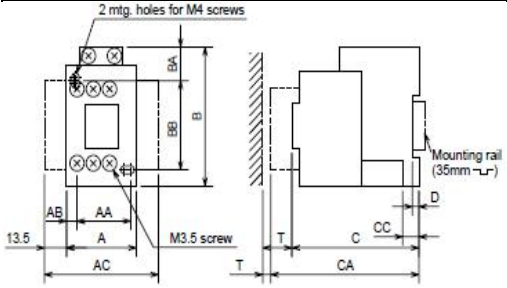
S-N18

S-N25



S-N50

Contactor Type			S-N10	S-N12	S-N18	S-N21	S-N25	S-N35	S-N50	S-N65	S-N80	S-N95	S-N125	S-N150	S-N180
Rated insulation voltage, Ui		V	690												1000
Conventional air thermal current, Ith		A	20	20	25	32	50	60	80	100	135	150	150	200	260
Max current for AC-4 duty at 440V		A	6	9	9	13	17	24	32	47	62	75	90	110	150
3-ph, cosθ=0.35, 240/440V	Making	A	110	130	180	220	300	400	550	650	850	1050	1250	1500	1800
	Breaking	A	100	120	180	220	300	400	550	650	800	930	1000	1200	1450
Rated capacity for resistive loads 3-ph, Category AC-1	220-240V	kW	7.5	7.5	9.5	12	18	20	30	35	50	55	55	75	95
	380-440V	kW	7	8.5	13	20	30	35	50	65	85	90	90	130	170
	500V	kW	7	9.5	13	25	40	50	65	85	110	120	120	170	220
	690V	kW	7	8	11	30	50	60	80	100	135	150	150	200	260
Rated capacity for resistive loads 3-ph, Category AC-3	220-240V	A	11	13	18	22	30	40	55	65	85	105	125	150	180
	380-440V	A	9	12	16	22	30	40	50	65	85	105	120	150	180
	500V	A	7	9	13	17	24	32	38	60	75	85	90	140	180
	690V	A	5	7	9	9	12	17	26	38	52	65	70	100	120
Rated capacity for jogging of AC motors 3-ph, Category AC-4	220-240V	kW	0.75	1.1	1.5	2.2	3	3.7	5.5	7.5	7.5	11	15	18.5	22
	380-440V	kW	1.1	1.5	2.2	3.7	5.5	5.5	7.5	11	15	18.5	22	30	37
	500V	kW	1.1	1.5	2.2	3.7	5.5	5.5	7.5	11	15	18.5	22	37	45
	690V	kW	1.1	1.5	2.2	3.7	5.5	5.5	7.5	11	15	18.5	22	30	50
Switching frequency, operations/hour	AC-1		1800	1800	1800	1800	1800	1800	1200	1200	1200	1200	1200	1200	1200
	AC-3		1800	1800	1800	1800	1800	1800	1200	1200	1200	1200	1200	1200	1200
	AC-4		660	660	600	600	600	600	600	600	600	300	300	300	300
Operating time at rated coil votlage, AC	Closing	ms	15	15	15	15	15	15	25	25	27	27	25	27	30
	Opening	ms	10	10	10	10	10	10	53	53	75	75	85	85	100
Coil consumption at rated votlage, AC	Inrush	VA	60	60	60	90	110	110	132	132	225	225	320	320	480
	Sealed	VA	10	10	10	15	13	13	17	17	22	22	26	26	44
	Watts	VA	3.5	3.5	3.5	5.3	5.3	5.3	2.8	2.8	3.3	3.3	3.5	3.5	5
Coil votlage tolerance			0.85 to 1.1 times as rated coil voltage												
Mechanical endurance, make/break oper			10 Million						5 Million						
Permissible ambient temperature		℃	-25 to +55												
Vibration, 10-55Hz			19.6m/s2												
Shock, 10ms half sine wave			49m/s2												
Conductor size, mm^2			1-2.5	1-2.5	1-6	1-6	2-16	2-16	2-25	2-25	2-50	2-50	-	-	-
Control terminal, mm^2			1-2.5												
Busbar width, mm			-	-	-	-	-	-	-	-	15	15	15	20	25



Outer Dimensions, mm

Type	A	B	C	AA	AB	AC	BB	BA	CC	CA	D
S-N10	43	78	78	35	4.5	70	50	19	10	106	4
S-N12	53	78	78	40	4.5	-	50	19	10	106	4
S-N18	43	79	81	30	6	-	60	13	10	109	4
S-N21	63	81	81	54	4.5	90	60	14	6.5	109	4
S-N25	75	89	91	65	5	102	70	13	6.5	119	4
S-N35	75	89	91	65	5	102	70	13	6.5	119	4