


STAR - DELTA STARTERS IN ENCLOSURES - TYPE PNSDS

Table 1 - Technical data for Star - Delta starters

	Star-Delta starter type PNSDS	In at 400 V A	220 V kW	400 V kW	500 V kW	690 V kW	Dimensions (axbxc) mm
	PNSDS 7,5	16	4	7,5	7,5	7,5	210x260x185
	PNSDS 11	22	5,5	11	11	7,5	
	PNSDS 15	29	7,5	15	15		
	PNSDS 18,5	37	11	18,5	22	15	
	PNSDS 22	44	15	22	22	15	240x320x205
	PNSDS 25	50	15	25	25	18,5	
	PNSDS 30	55	18,5	30	30	25	400x500x207
	PNSDS 37	72	22	37	37	37	
	PNSDS 45	85	26	45	45	45	400x600x217
PNSDS 55	105	37	55	55	55		

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Table 2 - Current range of thermal overload relays and selection of components for PNSDS

Type of starter	Pn kW	K1	K2	K3	EVR	TM	Range A	Ir A	Max. starting time from cold state*
PNSDS 7,5	7,5	CNN 9	CNN 9	CNN 9	EVRK 40	TM 40	6,3-10	9	15
PNSDS 11	11	CNN 12	CNN 12	CNN 9	EVRK 40	TM 40	10-16	12,7	
PNSDS 15	15	CNN 18	CNN 18	CNN 12	EVRK 40	TM 40	12,5-20	16,8	
PNSDS 18,5	18,5	CNN 25	CNN 25	CNN 25	EVRK 40	TM 40	16-25	20,3	
PNSDS 22	22	CNN 30	CNN 30	CNN 25	EVRK 40	TM 40	16-25	23,7	
PNSDS 25	25	CNN 32	CNN 32	CNN 32	EVRK 40	TM 40	22-30	29	
PNSDS 30	30	CNN 40	CNN 40	CNN 32	EVRK 40	TM 40	28-38	31,9	30
PNSDS 37	37	CNN 50	CNN 50	CNN 32	EVRK 40	TRM 75-N60	32-50	41,6	
PNSDS 45	45	CNN 60	CNN 60	CNN 40	EVRK 40	TRM 75-N60	40-57	49	
PNSDS 55	55	CNN 70	CNN 70	CNN 40	EVRK 40	TRM 75-N60	50-63	61	

(*) Usual time value = 6.....10 s.

ORDER:

Example: Motorstarter type PNSDS 18,5 control voltage 220/230 V, 50 Hz

PNSDS 18,5 **220/230 V** **50 Hz.**

Example: Star - Delta Starters type SDS 18,5 control voltage 220/230 V, 50 Hz, thermal overload relay type TM 40, current range (10-16)A

PNSDS 18,5 **230/230** **50 Hz** **16A**