

NHD INDUSTRIAL CO., LTD.

CATALOGUE

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Three Pole Contactors

“C”- Series 9A to 100A (AC3)

CONTROL CIRCUIT: AC



C-06D10



C-09D10



C-18D10



C-35D10











C-45D11



C-80D11

catalogue name	Instantaneous Auxiliary contacts		Rated Insulation Voltage	AC1 duty $\leq 40^{\circ}\text{C}$	I _e	Rated operational power in AC-3 3Phase			Rated operational power in AC-3 1Phase		Weight (Kg)	Approval	
	N/O	N/C	U _i	I _{th}		220V	380V	440V	575V	120V			230V
						KW HP	KW HP	KW HP	KW HP	KW HP			KW HP
C-06D10	1	-	1000V	16A	9A	2.2 3	3.7 5	3.7 5	3.7 5	0.2 1/3	1.1 1.5	0.177	CE
C-06D01	-	1											
C-09D10	1	-	1000V	20A	9A	2.2 3	3.7 5	3.7 5	3.7 5	0.37 0.5	1.5 2	0.350	UL LISTED CE SP US
C-09D01	-	1											
C-11D10	1	-	1000V	25A	12A	3 4	5.5 7.5	5.5 7.5	5.5 7.5	0.55 0.75	1.5 2	0.350	UL LISTED CE SP US
C-11D01	-	1											
C-12D10	1	-	1000V	25A	16A	4 5.5	7.5 10	5.5 10	7.5 10	0.75 1	2.2 3	0.350	UL LISTED CE SP US
C-12D01	-	1											

Three Pole Contactors





catalogue name	Instantaneous Auxiliary contacts		Rated Insulation Voltage	AC1 duty $\theta \leq 40^\circ\text{C}$	Ie	Rated operational power in AC-3 3Phase			Rated operational power in AC-3 1Phase		Weight (Kg)	Approval	
	N/O	N/C	Ui	Ith		220V	380V	440V	575V	120V			230V
						KW HP	KW HP	KW HP	KW HP	KW HP			KW HP
C-18D10	1	-	1000V	32A	22A	5.5	11	11	11	1.5	3.7	0.380	
C-18D01	-	1				7.5	15	15	15	2	5		
C-25D10	1	-	1000V	40A	32A	7.5	15	15	15	2.2	4	0.525	
C-25D01	-	1				10	20	20	20	3	5.5		
C-35D10	1	-	1000V	50A	42A	11	19	19	19	3	5.5	0.550	
C-35D01	-	1				15	25	25	25	4	7.5		
C-45D11	1	1	1000V	60A	55A	15	30	30	30			1.100	
						20	40	40	40				
C-55D11	1	1	1000V	80A	65A	19	33	33	33			1.100	
						25	45	45	45				
C-65D11	1	1	1000V	90A	80A	22	37	37	37			1.100	
						30	50	50	50				
C-80D11	1	1	1000V	125A	105A	25	45	55	55			1.430	
						35	60	75	75				
C-100D11	1	1	1000V	130A	110A	30	55	55	60			1.430	
						40	75	75	80				

Control Relays

CONTROL CIRCUIT : AC / DC

“C”- Series 9A to 32A (AC3)

				
CR2-1022	CR2-1031	CR2-1040	CR2-1013	CR2-1004

Catalogue name	Instantaneous Auxiliary Contacts		Insulation Voltage	Thermal Current	Approval
	N/O	N/C			
CR2-1040	4	-			
CR2-1031	3	1	600V	20A	
CR2-1022	2	2			
CR2-1013	1	3			
CR2-1004	-	4			
CR2-2030	3	-			
CR2-2021	2	1	600V	20A	
CR2-2012	1	2			
CR2-2003	-	3			

Auxiliary Contacts Blocks

				
CA1-D11	CA1-D02	CA1-D31	CA8-D11	CA9-D02

Catalogue name	Applicable Contactor	Auxiliary Contacts		Insulation Voltage	Thermal Current	Approval
		N/O	N/C			
CA1-D20		2	-			
CA1-D11		1	1			
CA1-D02		-	2			
CA1-D40		4	-			
CA1-D31		3	1	660V	10A	
CA1-D22	C-09D to C-100D11	2	2			
CA1-D13		1	3			
CA1-D04		-	4			
CA8-D20		2	-			
CA8-D11		1	1			
CA8-D02		-	2			
CA9-D02		-	2			



CA1 : Top Auxiliary Contacts Blocks

CA8 : Side Auxiliary Contacts Blocks

CA9 : Mechanical Interlock

THERMAL OVERLOAD RELAYS

Compensated and differential overload relays with 1 N/O + 1 N/C electrically separated auxiliary contacts





For direct connection with "C"- series and SMC- series contactors



Catalogue Name	Relay Setting Range RC (FLC) A	Contactors	Weight Kg	Approval
NTH - 0.5	0.35 - 0.5A	C - 09D	0.14	
NTH - 0.75	0.5 - 0.75A	C - 09D	0.14	
NTH - 10.5	0.75 - 1.05A	C - 09D	0.14	
NTH - 1.45	1.05 - 1.45A	C - 09D	0.14	
NTH - 1.9	1.4 - 1.9A	C - 09D	0.14	
NTH - 2.5	1.8 - 2.5A	C - 09D	0.14	
NTH - 3	2.4 - 3A	C - 09D	0.14	
NTH - 4	2.9 - 4A	C - 09D	0.14	
NTH - 5	3.8 - 5A	C - 09D	0.14	
NTH - 6.5	4.5 - 6.5A	C - 09D	0.14	
NTH - 8	6 - 8A	C - 09D	0.14	
NTH - 11	8 - 11A	C - 11D	0.14	
NTH - 14	11 - 14A	C - 12D	0.14	
NTH - 15	10 - 15A	C - 12D	0.14	
NTH - 17	14 - 17A	C - 12D	0.14	

THERMAL OVERLOAD RELAYS



Catalogue Name	Relay Setting Range RC (FLC) A	Contactors	Weight Kg	Approval
NTH - 21	17 - 21A	C - 18D	0.15	CE 
NTH - 25	21 - 25A	C - 25D	0.15	CE 
NTH - 28	24 - 28A	C - 25D	0.15	CE 
NTH - 32	26 - 32A	C - 25D	0.15	CE 
NTH - 38	30 - 38A	C - 35D	0.18	CE
NTH - 44	36 - 44A	C - 35D	0.18	CE
BTH-60	12~18A	C-45D11	0.43	CE
BTH-60	18~26A	C-45D11	0.43	CE
BTH-60	26~40A	C-45D11	0.43	CE
BTH-60	33~50A	C-55D11	0.43	CE
BTH-60	43~65A	C-65D11	0.43	CE
BTH-80	54~80A	C-65D11	0.43	CE
BTH-80	64~96A	C-80D11	0.43	CE
BTH-80	85~126A	C-100D11	0.43	CE

Note : Select and set the overload relay according to the current value on the motor rating plate.

Direct mounting on the underside of the contactors.

Terminals protected against direct finger contact and fitted with ready to tighten screws.

Lockable and salable Man/Auto switch. Trip Test. Cover locks the function.

Enclosed Starters Non- Reversing Starters MS1 IP65



CE

MS1-09D



CE

MS1-18D-R



CE

MS1-18D



CE

MS1-35D

Catalogue name	3 Phase				1 Phase		Overload Relay Type	Instantaneous Auxiliary Contacts	
	220V HP	380V HP	440V HP	575V HP	120V HP	240V HP		N/O	N/C
MS1-09D	3	5	5	5	0.5	2	NTH-Series	1	-
MS1-11D	4	7.5	7.5	7.5	0.75	2	NTH-Series	1	-
MS1-12D	5.5	10	10	10	1	3	NTH-Series	1	-
MS1-18D	7.5	15	15	15	2	5	NTH-Series	1	-
MS1-25D	10	20	20	20	3	5.5	NTH-Series	1	-
MS1-35D	15	25	25	25	4	7.5	NTH-Series	1	-

Enclosed Starters Non- Reversing Starters MS IP65



CE

MS-09D



CE

MS-18D



CE

MS-25D



CE

MS-35D

Catalogue name	3 Phase				1 Phase		Overload Relay Type	Instantaneous Auxiliary Contacts	
	220V	380V	440V	575V	120V	240V		N/O	N/C
Without Push Button	HP	HP	HP	HP	HP	HP		N/O	N/C
MS-09D	3	5	5	5	0.5	2	NTH-Series	1	-
MS-11D	4	7.5	7.5	7.5	0.75	2	NTH-Series	1	-
MS-12D	5.5	10	10	10	1	3	NTH-Series	1	-
MS-18D	7.5	15	15	15	2	5	NTH-Series	1	-
MS-25D	10	20	20	20	3	5.5	NTH-Series	1	-
MS-35D	15	25	25	25	4	7.5	NTH-Series	1	-

Enclosed Starters Non-Reversing Starters MSP IP42



CE

MS21-09D



CE

MS21-18D



CE

MS21-18D



CE

MS21-35D

Catalogue name	3 Phase				1 Phase		Overload Relay Type	Instantaneous Auxiliary Contacts	
	220V HP	380V HP	440V HP	575V HP	120V HP	240V HP		N/O	N/C
MSP21-09D-PB	3	5	5	5	0.5	2	NTH-Series	1	-
MSP21-11D-PB	4	7.5	7.5	7.5	0.75	2	NTH-Series	1	-
MSP21-12D-PB	5.5	10	10	10	1	3	NTH-Series	1	-
MSP21-18D-PB	7.5	15	15	15	2	5	NTH-Series	1	-
MSP21-25D-PB	10	20	20	20	3	5.5	NTH-Series	1	-
MSP35-35D-PB	15	25	25	25	4	7.5	NTH-Series	1	-

Enclosed Starters Non-Reversing Starters MSP IP42



CE

MS21-09D



CE

MS21-18D



CE

MS21-18D



CE

MS21-35D

Catalogue name	3 Phase				1 Phase		Overload Relay Type	Instantaneous Auxiliary Contacts	
	220V	380V	440V	575V	120V	240V		N/O	N/C
Without Push Button	HP	HP	HP	HP	HP	HP			
MSP21-09D	3	5	5	5	0.5	2	NTH-Series	1	-
MSP21-11D	4	7.5	7.5	7.5	0.75	2	NTH-Series	1	-
MSP21-12D	5.5	10	10	10	1	3	NTH-Series	1	-
MSP21-18D	7.5	15	15	15	2	5	NTH-Series	1	-
MSP21-25D	10	20	20	20	3	5.5	NTH-Series	1	-
MSP35-35D	15	25	25	25	4	7.5	NTH-Series	1	-

Star-Delta Starters

CONTROL CIRCUIT : AC



"C" Series

Type	220~240V		380~415V		MCM	MCY	MCΔ
	HP	A	HP	A			
EYD ₃ -12D	7.5~10	22~30A	10~15	15~22A	C-12D10	C-12D10+CA8-D11	C-12D10+CA8-D11
EYD ₃ -25D	15~20	41~54A	20~30	30~41A	C-25D10	C-12D10+CA8-D11	C-25D10+CA8-D11
EYD ₃ -35D	25~30	67~80A	40~50	54~67A	C-35D10	C-25D10+CA8-D11	C-35D10+CA8-D11
EYD ₃ -55D	40	105A	60	80A	C-55D11	C-35D10+CA8-D11	C-55D11 +CA8-D11
EYD ₃ -65D	50	2CT+NTH-6.5	75	105A	C-65D11	C-45D11	C-65D11 +CA8-D11
EYD ₃ -80D	60	2CT+NTH-6.5	100	2CT+NTH-6.5	C-80D11	C-55D11	C-80D11 +CA8-D11
EYD ₃ -100D	75	2CT+NTH-6.5	125	2CT+NTH-6.5	C-100D11	C-65D11	C-100D11 +CA8-D11

4 Pole Contactors

“C”- Series 9A to 32A (AC3)

CONTROL CIRCUIT: AC



C-09D22



C-11D22



C-12D22



C-25D22



C-25D40



C-25D04

Catalogue name	Instantaneous Auxiliary Contacts		Insulation Voltage Ui	AC1 duty $\theta \leq 40^\circ\text{C}$	
	N/O	N/C		Ith	Ie
C-09D40	4	-	1000V	20A	9A
C-09D22	2	2			
C-09D04	-	4			
C-11D40	4	-	1000V	25A	12A
C-11D22	2	2			
C-11D04	-	4			
C-12D40	4	-	1000V	25A	16A
C-12D22	2	2			
C-12D04	-	4			
C-25D40	4	-	1000V	40A	32A
C-25D22	2	2			
C-25D04	-	4			

Three Pole Contactors

SMC™- Series 9A to 105A (AC3)

CONTROL CIRCUIT: AC



SMC-09

SMC-12

SMC-32

SMC-40

SMC-50

SMC-85

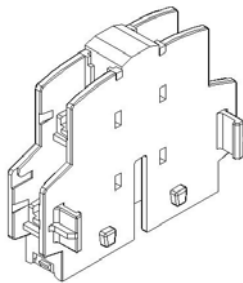
catalogue name	Instantaneous Auxiliary contacts		Rated Insulation Voltage	AC1 duty $\theta \leq 40^\circ\text{C}$	I _e	Rated operational power in AC-3 3Phase				Rated operational power in AC-3 1Phase		Weight (Kg)	Approval
	N/O	N/C	U _i	I _{th}		220V	380V	440V	575V	120V	230V		
						KW HP	KW HP	KW HP	KW HP	KW HP	KW HP		
SMC-09	1	1	1000V	20A	9A	2.2 3	3.7 5	3.7 5	3.7 5	0.37 0.5	1.5 2	0.36	CE
SMC-12	1	1	1000V	25A	12A	3 4	5.5 7.5	5.5 7.5	5.5 7.5	0.55 0.75	1.5 2	0.36	CE
SMC-18	1	1	1000V	32A	15A	3.7 5	7.5 10	7.5 10	7.5 10	0.75 1	2.2 3	0.37	CE
SMC-22	1	1	1000V	40A	22A	5.5 7.5	11 15	11 15	11 15	1.5 2	3.7 5	0.37	CE
SMC-32	2	2	1000V	50A	32A	7.5 10	15 20	15 20	15 20	2.2 3	4 5.5	0.48	CE

Three Pole Contactors

catalogue name	Instantaneous Auxiliary contacts		Rated Insulation Voltage	AC1 duty $\theta \leq 40^\circ\text{C}$	Ie	Rated operational power in AC-3				Rated operational power in AC-3		Weight (Kg)	Approval
	N/O	N/C	Ui	Ith		3Phase				1Phase			
						220V	380V	440V	575V	120V	230V		
					KW HP	KW HP	KW HP	KW HP	KW HP	KW HP			
SMC-40	2	2	1000V	60A	42A	11 15	19 25	19 25	19 25	3 4	5.5 7.5	0.48	CE
SMC-50	2	2	1000V	80A	55A	15 20	30 40	30 40	30 40			1.30	CE
SMC-65	2	2	1000V	100A	65A	19 25	33 45	33 45	33 45			1.30	CE
SMC-75	2	2	1000V	110A	80A	22 30	37 50	37 50	37 50			1.30	CE
SMC-85	2	2	1000V	135A	105A	25 35	45 60	55 75	55 75			1.30	CE

Note : SMC-32~SMC-85 includes of 2PCS SMC-11

Auxiliary Contacts Blocks



SMC-D11

Note: SMC-09 ~ SMC-22 include of 1pc SMC-D11 only

Note: rated 10A max at 600Vac

Ui : 600V Ith : 10A

Contactor : SMC-09 to SMC-85

Instantaneous Auxiliary Contacts : 1NO + 1NC

Three Pole Contactors

						
S-C11	S-C12	S-C16	S-C21	S-C35	S-C80	S-C100

"S-C" type 12A to 220A (AC3)

CONTROL CIRCUIT: AC

Catalogue name	Instantaneous Auxiliary contacts		AC1 duty $\theta \leq 40^\circ\text{C}$	AC3 duty 1 Phase		AC3 duty 3 Phase				Ie
	N/O	N/C		110V	220V	220V	380V	415V	500V	
	KW	HP	KW	HP	KW	KW	KW	KW		
S-C11	1	-	20A	0.55	1.2	3	4	4	4	12A
	-	1		0.75	1.5	4	5.5	5.5	5.5	
S-C12	1	1	20A	0.55	1.2	3	4	4	4	12A
	2	-		0.75	1.5	4	5.5	5.5	5.5	
S-C16	1	1	30A	0.75	1.5	4	5.5	5.5	5.5	16A
				1	2	5.5	7.5	7.5	7.5	
S-C21	2	2	36A	1.2	2.2	5.5	11	11	11	24A
				1.5	3	7.5	15	15	15	
S-C35	2	2	45A	2.2	4	9	15	15	15	35A
				3	5.5	12.5	20	20	20	
S-C50	2	2	65A	3	5.5	13	24	24	24	50A
				4	7.5	17.5	32	32	32	

Three Pole Contactors



"S-C" type 12A to 220A (AC3)

CONTROL CIRCUIT: AC

Catalogue name	Instantaneous Auxiliary contacts		AC1 duty duty θ≤40°C	AC3 duty 1 Phase		AC3 duty 3 Phase				Ie
	N/O	N/C		110V	220V	220V	380V	415V	500V	
				KW HP	KW HP	KW HP	KW HP	KW HP	KW HP	
S-C60	2	2	80A	4 5.5	7.5 10	15 20	30 40	30 40	30 40	58A
S-C65	2	2	100A		11 15	19 25	37 50	37 50	37 50	67A
S-C80	2	2	125A		15 20	22 30	44 60	44 60	44 60	85A
S-C100	2	2	145A			30 40	60 80	60 80	60 80	110A
S-C125	2	2	165A			37 50	75 100	75 100	75 100	135A
S-C150	2	2	200A			45 60	90 125	90 125	90 125	165A
S-C220	2	2	250A			65 85	110 150	110 150	110 150	220A

THERMAL OVERLOAD RELAYS "TH"-series 0.64A to 160A”

Compensated and differential overload relays with 1 N/O + 1 N/C (1com) auxiliary contacts

For direct connection with "S-C" series contactors

TH-12



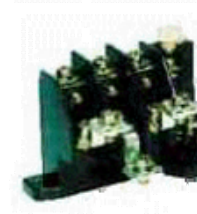
TH-20



TH-60



TH-60T



TH-120



Catalogue Name	Relay Setting Range RC (FLC) A	Standard A	Contactors	Weight Kg	Motor Capacity (HP)				
					1 Phase		3 Phase		
					100-110V	200-220V	200-220V	380-440V	500-550V
TH-12	0.64~0.96A	0.8A	S-C11~S-C12	0.095			1/8	1/4	1/2
TH-12	0.9~1.5A	1.2A	S-C11~S-C12	0.095			1/4	1/2	3/4
TH-12	1.6~2.6A	2.1A	S-C11~S-C12	0.095		1/4	1/2	1	1-1/2
TH-12	2.8~4.2A	3.5A	S-C11~S-C12	0.095	1/8	1/2	1	2	3
TH-12	4~6A	5A	S-C11~S-C12	0.095	1/4	3/4	1-1/2	3	4
TH-12	5~8A	6.5A	S-C11~S-C12	0.095	1/2	1	2	4	
TH-12	7~11A	9A	S-C11~S-C12	0.095			3	5	7-1/2
TH-12	9~13A	11A	S-C12	0.095	3/4	1-1/2	4	7-1/2	10
TH-12	12~18A	15A	S-C16	0.095	1	2	5	10	
TH-20	1.6~2.6A	2.1A	S-C16~S-C21	0.135			1/2	1	1-1/2
TH-20	2.8~4.2A	3.5A	S-C16~S-C21	0.135	1/8	1/2	1	2	3

Catalogue Name	Relay Setting Range RC (FLC) A	Standard A	Contactors	Weight Kg	Motor Capacity (HP)				
					1 Phase		3 Phase		
					100-110V	200-220V	200-220V	380-440V	500-550V
TH-20	1.6~2.6A	2.1A	S-C16~S-C21	0.135			1/2	1	1-1/2
TH-20	2.8~4.2A	3.5A	S-C16~S-C21	0.135	1/8	1/2	1	2	3
TH-20	4~6A	5A	S-C16~S-C21	0.135	1/4	3/4	1-1/2	3	4
TH-20	5~8A	6.5A	S-C16~S-C21	0.135	1/2	1	2	4	
TH-20	7~11A	9A	S-C16~S-C21	0.135			3	5	7-1/2
TH-20	9~13A	11A	S-C16~S-C21	0.135	3/4	1-1/2	4	7-1/2	10
TH-20 (T)	12~18A	15A	S-C16~S-C21	0.135	1	2	5	10	
TH-20 (T)	18-26A	22A	S-C21	0.135	1-1/2		7-1/2	15	20
TH-20 (T)	24~36A	30A	S-C21	0.165		5	10	20	
TH-20 (T)	33-50A	41A	S-C35	0.165	3	7-1/2	15	30	40
TH-60	24~36A	30A	S-C35	0.225		5	10	20	
TH-60	33~50A	41A	S-C50	0.225	3	7-1/2	15	30	40
TH-60	43~65A	54A	S-C60	0.225			20	40	50
TH-60 (T)	54~80A	67A	S-C65	0.225			25	50	60
TH-60 (T)	60~100A	80A	S-C80	0.225	6		30	60	75
TH-120	60~100A	80A	S-C100	0.490			30	60	75
TH-120	80~130A	105A	S-C100	0.490			40	75	100
TH-120	100~160A	130A	S-C125	0.490			50	100	125

Enclosed Starters Non-Reversing Starters MSP IP42

Catalogue name	3 Phase				Overload Relay Type	Instantaneous Auxiliary Contacts	
	220V	380V	440V	575V		N/O	N/C
Non Push Button	HP	HP	HP	HP			
MSP11-C11	4	5.5	5.5	5.5	TH-12	1	-
MSP21-C12	4	5.5	5.5	5.5	TH-12	1	1
MSP21-C16	5	7.5	7.5	7.5	TH-20	1	1
MSP21-C21	7.5	15	15	15	TH-20	2	2
MSP35-C35	10	20	20	20	TH-20	2	2

MSP21-C21



Enclosed Starters Non-Reversing Starters MSP IP42

Catalogue name	3 Phase				Overload Relay Type	Instantaneous Auxiliary Contacts	
	220V	380V	440V	575V		N/O	N/C
	HP	HP	HP	HP			
MSP11-C11-PB	4	5.5	5.5	5.5	TH-12	1	-
MSP21-C12-PB	4	5.5	5.5	5.5	TH-12	1	1
MSP21-C16-PB	5	7.5	7.5	7.5	TH-20	1	1
MSP21-C21-PB	7.5	15	15	15	TH-20	2	2
MSP35-C35-PB	10	20	20	20	TH-20	2	2



Enclosed Starters Non-Reversing Starters MSP IP42



Catalogue name	3 Phase				Overload Relay Type	Instantaneous Auxiliary Contacts	
	220V HP	380V HP	440V HP	575V HP		N/O	N/C
MSN12C11-PB	4	5.5	5.5	5.5	TH-12	1	-
MSN12-C12-PB	4	5.5	5.5	5.5	TH-12	1	1
MSN21-C16-PB	5	7.5	7.5	7.5	TH-20	1	1
MSN21-C21-PB	7.5	15	15	15	TH-20	2	2
MSN35-C35-PB	10	20	20	20	TH-20	2	2
MSN65-C50-PB	15	32	32	32	TH-60	2	2
MSN65-C60-PB	20	40	40	40	TH-60	2	2
MSN65-C65-PB	25	50	50	50	TH-60	2	2
MSN65-C80-PB	30	60	60	60	TH-60	2	2
MSN100-C100-PB	40	80	80	80	TH-120	2	2
MSN100-C125-PB	50	100	100	100	TH-120	2	2
MSN100-45D-PB	20	45	45	40	BTH-60	1	1
MSN100-55D-PB	25	45	45	45	BTH-60	1	1
MSN100-65D-PB	30	50	50	50	BTH-60	1	1
MSN100-80D-PB	35	60	75	75	BTH-80	1	1
MSN100-100D-PB	40	75	75	80	BTH-80	1	1

Star-Delta Starters

CONTROL CIRCUIT : AC



"S-C" Series

Type	220~240V		380~415V		MCM	MCY	MC Δ
	HP	A	HP	A			
EYD ₃ -21	7.5~10	22~30A	10~15	15~22A	S-C21	S-C21	S-C21
EYD ₃ -35	15~20	41~54A	20~30	30~41A	S-C35	S-C21	S-C35
EYD ₃ -50	25~30	67~80A	40~50	54A~67A	S-C50	S-C35	S-C50
EYD ₃ -65	40	105A	60	80A	S-C65	S-C35	S-C65
EYD ₃ -80	50	130A	75	105A	S-C80	S-C50	S-C80
EYD ₃ -100	60	2CT+TH20-5A	100	2CT+TH20-5A	S-C100	S-C60	S-C100
EYD ₃ -125	75	2CT+TH20-5A	125	2CT+TH20-5A	S-C125	S-C65	S-C125
EYD ₃ -150	100	2CT+TH20-5A	150	2CT+TH20-5A	S-C150	S-C80	S-C150
EYD ₃ -220	125	2CT+TH20-5A	200	2CT+TH20-5A	S-C220	S-C100	S-C220