

Take a SIRIUS approach to Starters.

IEC Starters from Siemens



Siemens SIRIUS offers a modular design line of high quality Motor Control Products serving global standards and markets.

SIRIUS IEC Starters Selection Step by Step:

- **Step 1** Select Starter Series: V
- **Step 2** Select Disconnect Type
- **Step 3** Select Starter Type
- **Step 4** Select Enclosure Type
- **Step 5** Select Contactor Reference number based on HP rating and voltage from **TABLE 1**
- **Step 6** Select coil voltage
- **Step 7** Using **TABLE 2**, select overload suffix to match motor full load current and contactor reference number, or leave "7 & 8th" character as "00" and choose overload relay catalogue number as separate item from **TABLE 2**
- **Step 8** Select Power Line Voltage
- **Step 9** Select Control Circuit Voltage or if "0" is selected, choose from Field Modification Kits (see **TABLES 3 and 4**):
 - Control Circuit kits
 - Control Transformer kits

Example:

V	1	A	B	15	K	00	6	0
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SIRIUS Starters Features:

- 100HP, 600V max
- Standard 2NO+2NC contact block (1)
- Ambient 60°C on contactors
- Fast and simple 3-prong overload/contactor connection: no coil extension required
- Standard primary and secondary fusing on control transformers
- Standard Metal 22mm SIGNUM Control Devices

(1) Excluding 3RT1015, 3RT1016 and 3RT1017 FVNR, 1NO only

SIRIUS IEC MAGNETIC STARTERS SELECTION GUIDE												
Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8	Step 9				
Starter Series	Disconnect Type	Starter Type	Enclosure Type	Contactor Reference No.	Coil Voltage	Overload Setting Range	Power Line Voltage	Control Circuit				
V	1	A	B	15	C	0A to 4M	6	0				
SIRIUS IEC HP rated magnetic starter	Non-combination	Full Voltage Non-Reversing (FVNR)	CSA/EEMAC type 1	3RT1015	24V/60Hz 24V/50Hz	Standard Class 10 Bimetal Overload Relay	600 V Max. Distributor Stock	Separate control circuit, unfused				
	2	B	C	16	K	RB	1	R				
	Circuit Breaker combination	Full Voltage Reversing (FVR)	CSA type 5/ EEMAC type 12	3RT1016	120V/60Hz 110V/50Hz	Optional Class 20 Electronic Overload Relay	120V/1ph/60Hz	Standard control transformer c/w 2 prim and 1 sec. 120V fuse				
	3	N	D	17	M	00	2					
	Non-fusible Disconnect type	2 Speed, 1 Winding constant or variable torque	CSA/EEMAC type 4	3RT1017	208V/60Hz	Provision for field mounting of Overload Relay	208V/3ph/60Hz					
	4	R	F	25	P		3					
	Fusible Disconnect	2 Speed, 1 Winding constant HP	CSA/EEMAC type 4X	3RT1025	240V/60Hz 220V/50Hz		230V/3ph/60Hz					
							4					
							U		25	V	460V/60Hz 380V/50Hz	460V/3ph/60Hz
							W		33	T	600V/60Hz	575V/3ph/60Hz
							34		7			
							35		8			
3RT1034	230V/1ph/60Hz											
3RT1035	208V/3ph/60Hz w/4 wires (+Neutral)											
3RT1036	9	Specify other										
3RT1044												
3RT1045												
3RT1046												

Full Load Amps Adjustment Range	Contactor Reference in Starters Catalogue number (5th and 6th digit) e.g.: VIAB15... refers to SIRIUS contactor 3RT1015 size			
	15/16/17	25/26	33/34/35/36	44/45/46
	Overload SUFFIX	Overload SUFFIX	Overload SUFFIX	Overload SUFFIX
0.11-0.16	3RU1116-0AB0			
0.14-0.2	0B			
0.18-0.25	0C			
0.22-0.32	0D			
0.28-0.4	0E			
0.35-0.5	0F			
0.45-0.63	0G			
0.55-0.8	0H			
0.7-1.0	0J			
0.9-1.25	0K			
1.1-1.6	1A			
1.4-2.0	1B			
1.8-2.5	1C	3RU1126-1CB0		
2.2-3.2	1D	1D		
2.8-4.0	1E	1E		
3.5-5.0	1F	1F		
4.5-6.3	1G	1G		
5.5-8.0	1H	1H	3RU1136-1HB0	
7.0-10	1J	1J	1J	
9.0-12.5	1K	-	-	
11-16	4A	4A	4A	
14-20	4B	4B	4B	
17-22	4C	-	-	
18-25	-	4D	4D	3RU1146-4DB0
20-25	4D	-	-	-
22-32	-	4E	4E	4E
28-40	-	4F	4F	4F
36-45	-	4G	-	-
36-50	-	-	4H	4H
40-50	-	4H	-	-
45-63	-	-	4J	4J
57-75	-	-	4K	4K
70-90	-	-	4L	4L
80-100	-	-	4M	4M

TABLE 1: CONTACTOR REFERENCE NUMBER AND HP RATINGS							
Contactor reference No.	Enclosed Amps (AC-1)	CSA Maximum HP rating					
		1 phase		3 phase			
		115V	230V	200V	230V	460V	575V
15	20	1/4	3/4	1 1/2	2	3	5
16	20	1/3	1	2	3	5	7 1/2
17	20	1/2	2	3	3	7 1/2	10
25	35	1	3	5	5	10	15
26	35	2	3	7 1/2	7 1/2	15	20
33	35	2	5	7 1/2	10	20	25
34	45	2	5	10	10	25	30
35	55	3	7 1/2	10	15	30	40
36	55	3	10	15	15	40	50
44	90	5	15	20	25	50	60
45	105	7 1/2	15	25	30	60	75
46	105	10	-	30	30	75	100

TABLE 3 : CONTROL CIRCUIT TRANSFORMERS C/W 2 PRIMARY AND 1 SECONDARY FUSE				
Rating at 50/60Hz	Catalogue No.			
	Primary / Secondary Voltage			
	208/120	240/120	480/120	600/120
50	VFMKT2050	VFMKT4050	VFMKT4050	VFMKT6050
100	VFMKT2100	VFMKT4100	VFMKT4100	VFMKT6100
150	VFMKT2150	VFMKT4150	VFMKT4150	VFMKT6150
200	VFMKT2200	VFMKT4200	VFMKT4200	VFMKT6200
250	VFMKT2250	VFMKT4250	VFMKT4250	VFMKT6250
300	VFMKT2300	VFMKT4300	VFMKT4300	VFMKT6300
350	VFMKT2350	VFMKT4350	VFMKT4350	VFMKT6350

TABLE 4 : CONTROL CIRCUIT FIELD MODIFICATION KITS			
Pilot Device - suitable for installation in EEMAC1/12/4 enclosures			
Pushbuttons	Legend Plates		Catalogue Number
	English	French	
2 - pushbuttons momentary, 1 red extended, 1NC, 1 green flush, 1NO	STOP START	ARRET MARCHE	VFMK50
Selector Switches			
2- position maintained, black lever, 1NO	ON OFF	EN CIRCUIT ARRET	VFMKCO
3 position maintained, black lever, 2x1 NO	HAND OFF AUTO	MAN ARRET AUTO	VFMKGO
Pilot Lights			
Full voltage 120V incandescent c/w 2 lenses red and green	none		VFMK01

For more information on SIRIUS IEC Starters, please refer to the **IEC/EEMAC Starters Catalogue** Customer Interaction Centre: **1-888-303-3353**
www.siemens.ca