

Open and Enclosed Magnetic Motor Starters

Built to your specifications and ready to install

Sprecher + Schuh magnetic motor starters are intended to eliminate the purchase and assembly of a separate contactor, overload relay and associated wiring. When purchased with an enclosure, the starters are mounted and ready to install on receipt.

Starting with the best

At the heart of all magnetic starters is the Sprecher + Schuh CAT7, CAT6 and CAT5 line of motor starters. These starters are compact and offer intermediate sizes to better match specific motor requirements. This equates to generous wiring space and less wasted horsepower capacity.

Top line protection...

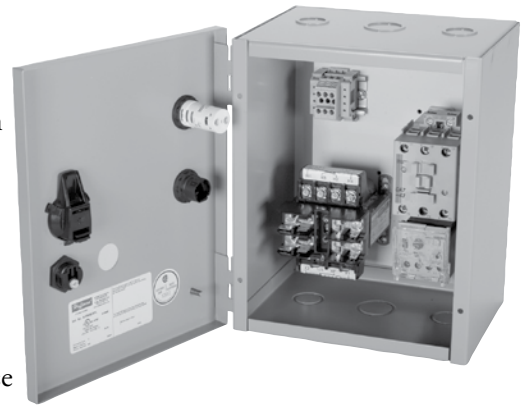
Magnetic starters are equipped with Sprecher + Schuh's CEP7 solid state overload relay. Unlike traditional overload relays that indirectly sense motor current through heater elements, CEP7 solid state overload relays measure motor current directly through integrated current transformers and on board electronics. The electronics provide numerous advantages over electromechanical relays.

The right enclosure... whatever the application

Sprecher + Schuh's broad line of IEC style starters can be purchased pre-installed in a variety of standard enclosures. Cataloged enclosures include:

Type 1 (M1)	General Purpose
Type 12 (M12)	Industrial Dusttight
Type 3R (M3)	Raintight (outdoor)
Type 4 (M4)	Watertight
Type 4X / (F4)	Watertight, Corrosion Resistant

Even though these are the most popular enclosure types for most industrial applications, we can house any starter in a custom enclosure of your choosing.



Quality enclosures ensure the highest confidence

Sprecher + Schuh only sources enclosures from name brand manufacturers, ensuring the highest quality. We primarily use enclosures that meet UL Standards, i.e., Type 1, Type 3R, etc., however, we can also source IEC-type enclosures at your request. Enclosures are sized first to accommodate the depth of the contactor and offer sufficient electrical clearances to satisfy UL.

Add a variety of modifications

If you need a larger enclosure than what is specified in our catalog, your sales representative and our Engineering department will work with you to customize any of our enclosed products to suit your exact specifications. Any combination of enclosure types, sizes, pilot devices, meters and other modifications can be combined to provide exactly the panel you need.



Type 1



Type 3R



Type 4



Type 4X

Three Phase, Non-Reversing CAT7, CAT6 & CAT5

Maximum Horsepower Three Phase				Auxiliary Contacts per Contactor ③		Open Type ⑤	Price	Type 1 (M1) General Purpose	Price	D I M	Type 12 (M12) [Type 3R (M3) ②] Industrial Dusttight	Price	D I M
200V	230V	460V	575V	NO	NC								
Catalog No.								Catalog No.					
2	2	5	7 1/2	1	0	CAT7-9-*◆	235	CAT7-9-*◆-GO ④	303	A	CAT7-9-*◆-DO ④	429	L
3	3	7 1/2	10	1	0	CAT7-12-*◆	269	CAT7-12-*◆-GO ④	336	A	CAT7-12-*◆-DO ④	462	L
5	5	10	15	1	0	CAT7-16-*◆	294	CAT7-16-*◆-GO ④	361	A	CAT7-16-*◆-DO ④	488	L
5	7 1/2	15	15	1	0	CAT7-23-*◆	311	CAT7-23-*◆-GO ④	378	A	CAT7-23-*◆-DO ④	505	L
7 1/2	10	20	25	1	0	CAT7-30-*◆	412	CAT7-30-*◆-GO ④	462	A	CAT7-30-*◆-DO ④	606	L
10	10	25	30	1	0	CAT7-37-*◆	462	CAT7-37-*◆-GO ④	505	A	CAT7-37-*◆-DO ④	648	L
10	15	30	30	1	0	CAT7-43-*◆	530	CAT7-43-*◆-GO ④	595	A	CAT7-43-*◆-DO ④	789	M
15	20	40	50	1	0	CAT7-60-*◆	631	CAT7-60-*◆-GO ④	791	B	CAT7-60-*◆-DO ④	967	O
20	25	50	60	1	0	CAT7-72-*◆	690	CAT7-72-*◆-GO ④	841	B	CAT7-72-*◆-DO ④	1026	O
25	30	60	60	1	0	CAT7-85-*◆	749	CAT7-85-*◆-GO ④	909	B	CAT7-85-*◆-DO ④	1085	O
30	30	75	75	1	0	CAT7-97-*◆	869	CAT7-97-*◆-GO ④	1194	O	CAT7-97-*◆-DO ④	1223	O
40	40	75	100	1	1	CAT6-115-*◆	1515	CAT6-115-*◆-GO ④	2104	E2	CAT6-115-*◆-DO ④	2482	R2
40	50	100	125	1	1	CAT6-140-*◆	2062	CAT6-140-*◆-GO ④	2861	G	CAT6-140-*◆-DO ④	3324	T
50	60	150	150	1	1	CAT6-180-*◆	2525	CAT6-180-*◆-GO ④	3324	G	CAT6-180-*◆-DO ④	3787	T
60	75	150	200	1	1	CAT6-210-EI-*◆	3703	CAT6-210-EI-*◆-GO	4460	G	CAT6-210-EI-*◆-DO	4907	T
75	100	200	250	1	1	CAT6-250-EI-*◆	3955	CAT6-250-EI-*◆-GO	5555	I	CAT6-250-EI-*◆-DO	5723	I
100	125	250	300	1	1	CAT6-300-EI-*◆	4208	CAT6-300-EI-*◆-GO	6060	I	CAT6-300-EI-*◆-DO	6228	I
150	175	350	400	1	1	CAT6-420-EI-*◆	6901	CAT6-420-EI-*◆-GO	8753	I	CAT6-420-EI-*◆-DO	8921	I
200	250	500	600	1	1	CAT6-630-EI-*◆	R/F	CAT6-630-EI-*◆-GO	R/F	~	CAT6-630-EI-*◆-DO	R/F	~
250	300	600	700	1	1	CAT6-860-EI-*◆	R/F	CAT6-860-EI-*◆-GO	R/F	~	CAT6-860-EI-*◆-DO	R/F	~
450	450	900	900	1	2	CAT5-1200-*◆	R/F	CAT5-1200-*◆-GO	R/F	~	CAT5-1200-*◆-DO	R/F	~

NOTE: Catalog numbers, list prices and enclosure dimensions reflect contactors with AC coils. For DC coils, select Coil Code from the DC Coil Code table on page C86 and follow the instructions for modifying catalog numbers and list prices.



Ordering Instructions

Specify Catalog Number	
Replace (*) with Coil Code	See page C86
Replace (◆) with O/L Relay	See pages C87-C88
Factory Modifications available	See pages C89-C92

- ① Dimensional information starts on page C108.
- ② For M3 outdoor applications, replace "D" in catalog number with an "R". Price remains the same, dimensions may change. Example: CAT7-23-*◆-DO becomes CAT7-23-*◆-RO.
- ③ Contactors are equipped with number and type of auxiliaries indicated. See page C91 to order additional or different auxiliary contacts.
- ④ CAT6-115...CAT6-180 starters are available with electronic interface coil "EI." Change catalog number to include "-EI". Example: CAT6-115-*◆ becomes CAT6-115-EI-*◆. See page C86 for price adder.
- ⑤ CAT5 "Open Type" starters include terminal screws only. If lugs are required, see "Accessories" for CA6 and CA5 contactors in Section A of this catalog.

Three Phase, Non-Reversing CAT7, CAT6 & CAT5

Maximum Horsepower Three Phase				Auxiliary Contacts per Contactor ②		Type 4 (M4) Watertight		D I M	Type 4X (F4) Watertight Corrosion Resistant Non-metallic		D I M
200V	230V	460V	575V	NO	NC	Catalog No.	Price	①	Catalog No.	Price	①
2	2	5	7 1/2	1	0	CAT7-9-*◆-W0	572	N	CAT7-9-*◆-C0	454	S1
3	3	7 1/2	10	1	0	CAT7-12-*◆-W0	606	N	CAT7-12-*◆-C0	488	S1
5	5	10	15	1	0	CAT7-16-*◆-W0	631	N	CAT7-16-*◆-C0	513	S1
5	7 1/2	15	15	1	0	CAT7-23-*◆-W0	648	N	CAT7-23-*◆-C0	530	S1
7 1/2	10	20	25	1	0	CAT7-30-*◆-W0	749	O	CAT7-30-*◆-C0	732	U1
10	10	25	30	1	0	CAT7-37-*◆-W0	799	O	CAT7-37-*◆-C0	782	U1
10	15	30	30	1	0	CAT7-43-*◆-W0	866	O	CAT7-43-*◆-C0	841	U1
15	20	40	50	1	0	CAT7-60-*◆-W0	1052	O	CAT7-60-*◆-C0	951	U1
20	25	50	60	1	0	CAT7-72-*◆-W0	1111	O	CAT7-72-*◆-C0	1010	U1
25	30	60	60	1	0	CAT7-85-*◆-W0	1178	O	CAT7-85-*◆-C0	1077	U1
30	30	75	75	1	0	CAT7-97-*◆-W0	1298	O	CAT7-97-*◆-C0	1598	V1
40	40	75	100	1	1	CAT6-115-*◆-W0 ③	2861	R2	CAT6-115-*◆-C0 ③	2693	W2
40	50	100	125	1	1	CAT6-140-*◆-W0 ③	3619	T	CAT6-140-*◆-C0 ③	4372	X1
50	60	150	150	1	1	CAT6-180-*◆-W0 ③	4082	T	CAT6-180-*◆-C0 ③	4881	X1
60	75	150	200	1	1	CAT6-210-EI-*◆-W0	5218	T	CAT6-210-EI-*◆-C0	6060	X1
75	100	200	250	1	1	CAT6-250-EI-*◆-W0	6607	J	CAT6-250-EI-*◆-C0	6396	X1
100	125	250	300	1	1	CAT6-300-EI-*◆-W0	6901	J	CAT6-300-EI-*◆-C0	7154	Y1
150	150	350	400	1	1	CAT6-420-EI-*◆-W0	9595	J	CAT6-420-EI-*◆-C0	9847	Y1
200	250	500	600	1	1	CAT6-630-EI-*◆-W0	R/F	~	CAT6-630-EI-*◆-C0	14350	~
250	300	600	700	1	1	CAT6-860-EI-*◆-W0	R/F	~	CAT6-860-EI-*◆-C0	R/F	~
450	450	900	900	1	2	CAT5-1200-*◆-W0	R/F	~	CAT5-1200-*◆-C0	R/F	~

NOTE: Catalog numbers, list prices and enclosure dimensions reflect contactors with AC coils. For DC coils, select Coil Code from the DC Coil Code table on page C86 and follow the instructions for modifying catalog numbers and list prices.


Ordering Instructions

Specify Catalog Number	
Replace (*) with Coil Code	See page C86
Replace (◆) with O/L Relay	See pages C87-C88
Factory Modifications available	See pages C89-C92

- ① Dimensional information starts on page C108.
- ② Contactors are equipped with number and type of auxiliaries indicated. See page C91 to order additional or different auxiliary contacts.
- ③ CAT6-115...CAT6-180 starters are available with electronic interface coil "EI." Change catalog number to include "-EI". Example: CAT6-115-*◆-W0 becomes CAT6-115-EI-*◆-W0. See page C86 for price adder.

Three Phase, Reversing CAUT7, CAUT6 & CAUT5

Maximum Horsepower Three Phase				Auxiliary Contacts per Contactor ③		Open Type ⑥		Type 1 (M1) General Purpose		D I M	Type 12 (M12) [Type 3R (M3) ②] Industrial Dusttight		D I M
200V	230V	460V	575V	NO	NC ④	Catalog No.	Price	Catalog No.	Price	①	Catalog No.	Price	①
2	2	5	7 1/2	1	1	CAUT7-9-*-*◆	429	CAUT7-9-*-*◆-GO ⑤	673	A	CAUT7-9-*-*◆-DO ⑤	723	M
3	3	7 1/2	10	1	1	CAUT7-12-*-*◆	496	CAUT7-12-*-*◆-GO ⑤	740	A	CAUT7-12-*-*◆-DO ⑤	791	M
5	5	10	15	1	1	CAUT7-16-*-*◆	538	CAUT7-16-*-*◆-GO ⑤	782	A	CAUT7-16-*-*◆-DO ⑤	833	M
5	7 1/2	15	15	1	1	CAUT7-23-*-*◆	580	CAUT7-23-*-*◆-GO ⑤	824	A	CAUT7-23-*-*◆-DO ⑤	875	M
7 1/2	10	20	25	1	1	CAUT7-30-*-*◆	715	CAUT7-30-*-*◆-GO ⑤	959	A	CAUT7-30-*-*◆-DO ⑤	1010	M
10	10	25	30	1	1	CAUT7-37-*-*◆	808	CAUT7-37-*-*◆-GO ⑤	1043	A	CAUT7-37-*-*◆-DO ⑤	1094	M
10	15	30	30	1	1	CAUT7-43-*-*◆	959	CAUT7-43-*-*◆-GO ⑤	1220	B	CAUT7-43-*-*◆-DO ⑤	1262	M
15	20	40	50	1	1	CAUT7-60-*-*◆	1161	CAUT7-60-*-*◆-GO ⑤	1557	C	CAUT7-60-*-*◆-DO ⑤	1599	O
20	25	50	60	1	1	CAUT7-72-*-*◆	1279	CAUT7-72-*-*◆-GO ⑤	1671	C	CAUT7-72-*-*◆-DO ⑤	1717	O
25	30	60	60	1	1	CAUT7-85-*-*◆	1388	CAUT7-85-*-*◆-GO ⑤	1784	C	CAUT7-85-*-*◆-DO ⑤	1826	O
30	30	75	75	1	1	CAUT7-97-*-*◆	1628	CAUT7-97-*-*◆-GO ⑤	2024	C	CAUT7-97-*-*◆-DO ⑤	2066	O
40	40	75	100	1	1	CAUT6-115-*-*◆ ⑤	2735	CAUT6-115-*-*◆-GO ⑤	3366	E2	CAUT6-115-*-*◆-DO ⑤	3619	R2
40	50	100	125	1	1	CAUT6-140-*-*◆ ⑤	3829	CAUT6-140-*-*◆-GO ⑤	4629	G	CAUT6-140-*-*◆-DO ⑤	5050	T
50	60	150	150	1	1	CAUT6-180-*-*◆ ⑤	4797	CAUT6-180-*-*◆-GO ⑤	5639	G	CAUT6-180-*-*◆-DO ⑤	6060	T
60	75	150	200	1	1	CAUT6-210-El-*-*◆	6691	CAUT6-210-El-*-*◆-GO	7406	G	CAUT6-210-El-*-*◆-DO	7827	T
75	100	200	250	1	1	CAUT6-250-El-*-*◆	7238	CAUT6-250-El-*-*◆-GO	8921	I	CAUT6-250-El-*-*◆-DO	9090	I
100	125	250	300	1	1	CAUT6-300-El-*-*◆	7617	CAUT6-300-El-*-*◆-GO	9258	I	CAUT6-300-El-*-*◆-DO	9426	I
150	175	350	400	1	1	CAUT6-420-El-*-*◆	13454	CAUT6-420-El-*-*◆-GO	15150	I	CAUT6-420-El-*-*◆-DO	15318	I
200	250	500	600	1	1	CAUT6-630-El-*-*◆	R/F	CAUT6-630-El-*-*◆-GO	R/F	~	CAUT6-630-El-*-*◆-DO	R/F	~
250	300	600	700	1	1	CAUT6-860-El-*-*◆	R/F	CAUT6-860-El-*-*◆-GO	R/F	~	CAUT6-860-El-*-*◆-DO	R/F	~
450	450	900	900	1	1	CAUT5-1200-*-*◆	R/F	CAUT5-1200-*-*◆-GO	R/F	~	CAUT5-1200-*-*◆-DO	R/F	~

NOTE: Catalog numbers, list prices and enclosure dimensions reflect contactors with AC coils. For DC coils, select Coil Code from the DC Coil Code table on page C86 and follow the instructions for modifying catalog numbers and list prices.



Ordering Instructions

Specify Catalog Number	
Replace (*) with Coil Code	See page C86
Replace (◆) with O/L Relay	See pages C87-C88
Factory Modifications available	See pages C89-C92

- ① Dimensional information starts on page C108.
- ② For M3 outdoor applications, replace "D" in catalog number with an "R". Price remains the same, dimensions may change. Example: CAUT7-23-*-*◆-DO becomes CAUT7-23-*-*◆-RO.
- ③ Contactors are equipped with number and type of auxiliaries indicated. See page C91 to order additional or different auxiliary contacts.
- ④ One N.C. auxiliary contact is used for electrical interlocking. On CAUT7 reversing starters, the N.C. contact comes from the Mechanical/Electrical Interlock unit (Cat # CM7-02).
- ⑤ CAUT6-115...CAUT6-180 reversing starters are available with electronic interface coil "El." Change catalog number to include "El". Example: CAUT6-115-*-*◆ becomes CAUT6-115-El-*-*◆. See page C86 for price adder.
- ⑥ CAUT5 "Open Type" starters include terminal screws only. If lugs are required, see "Accessories" for CA6 and CA5 contactors in Section A of this catalog.

Three Phase, Reversing CAUT7, CAUT6 & CAUT5

Maximum Horsepower Three Phase				Auxiliary Contacts per Contactor ②		Type 4 (M4) Watertight		D I M	Type 4X (F4) Watertight Corrosion Resistant Non-metallic		D I M
200V	230V	460V	575V	NO	NC ③	Catalog No.	Price	①	Catalog No.	Price	①
2	2	5	7 1/2	1	1	CAUT7-9-*♦-W0	774	N	CAUT7-9-*♦-C0	757	U1
3	3	7 1/2	10	1	1	CAUT7-12-*♦-W0	841	N	CAUT7-12-*♦-C0	824	U1
5	5	10	15	1	1	CAUT7-16-*♦-W0	892	N	CAUT7-16-*♦-C0	875	U1
5	7 1/2	15	15	1	1	CAUT7-23-*♦-W0	934	N	CAUT7-23-*♦-C0	917	U1
7 1/2	10	20	25	1	1	CAUT7-30-*♦-W0	1055	O	CAUT7-30-*♦-C0	1043	U1
10	10	25	30	1	1	CAUT7-37-*♦-W0	1144	O	CAUT7-37-*♦-C0	1136	U1
10	15	30	30	1	1	CAUT7-43-*♦-W0	1270	O	CAUT7-43-*♦-C0	1262	U1
15	20	40	50	1	1	CAUT7-60-*♦-W0	1565	O	CAUT7-60-*♦-C0	1733	V1
20	25	50	60	1	1	CAUT7-72-*♦-W0	1683	O	CAUT7-72-*♦-C0	1851	V1
25	30	60	60	1	1	CAUT7-85-*♦-W0	1809	O	CAUT7-85-*♦-C0	1977	V1
30	30	75	75	1	1	CAUT7-97-*♦-W0	2049	O	CAUT7-97-*♦-C0	2217	V1
40	40	75	100	1	1	CAUT6-115-*♦-W0 ④	3972	R2	CAUT6-115-*♦-C0 ④	3871	W2
40	50	100	125	1	1	CAUT6-140-*♦-W0 ④	5470	T	CAUT6-140-*♦-C0 ④	6438	X1
50	60	150	150	1	1	CAUT6-180-*♦-W0 ④	6396	T	CAUT6-180-*♦-C0 ④	7406	X1
60	75	150	200	1	1	CAUT6-210-EI-*♦-W0	8248	T	CAUT6-210-EI-*♦-C0	9258	X1
75	100	200	250	1	1	CAUT6-250-EI-*♦-W0	10100	J	CAUT6-250-EI-*♦-C0	10521	Y1
100	125	250	300	1	1	CAUT6-300-EI-*♦-W0	10436	J	CAUT6-300-EI-*♦-C0	10941	Y1
150	175	350	400	1	1	CAUT6-420-EI-*♦-W0	16160	J	CAUT6-420-EI-*♦-C0	16833	Y1
200	250	500	600	1	1	CAUT6-630-EI-*♦-W0	R/F	~	CAUT6-630-EI-*♦-C0	R/F	~
250	300	600	700	1	1	CAUT6-860-EI-*♦-W0	R/F	~	CAUT6-860-EI-*♦-C0	R/F	~
450	450	900	900	1	1	CAUT5-1200-*♦-W0	R/F	~	CAUT5-1200-*♦-C0	R/F	~

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Ordering Instructions

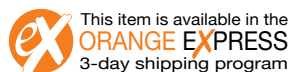
Specify Catalog Number	
Replace (*) with Coil Code	See page C86
Replace (♦) with O/L Relay	See pages C87-C88
Factory Modifications available	See pages C89-C92

- ① Dimensional information starts on page C108.
- ② Contactors are equipped with number and type of auxiliaries indicated. See page C91 to order additional or different auxiliary contacts.
- ③ One N.C. auxiliary contact is used for electrical interlocking. On CAUT7 reversing starters, the N.C. contact comes from the Mechanical/Electrical Interlock unit (Cat # CM7-02).
- ④ CAUT6-115...CAUT6-180 reversing starters available with electronic interface coil "EI." Change catalog number to include "-EI". Example: CAUT6-115-*♦-W0 becomes CAUT6-115-EI-*♦-W0. See page C86 for price adder.

Single Phase, Non-Reversing CBT7 ④

Maximum Horsepower Single Ø		Auxiliary Contacts per Contactor ⑤		Open Type		Type 1 (M1) General Purpose		D I M	Type 12 (M12) [Type 3R (M3) ②] Industrial Dusttight		D I M	Type 4 (M4) Watertight		D I M	Type 4X (F4) Watertight Corrosion Resistant		D I M
115V	230V	NO	NC	Catalog No.	Price	Catalog No.	Price	①	Catalog No.	Price	①	Catalog No.	Price	①	Catalog No.	Price	①
				CBT7-		CBT7-			CBT7-			CBT7-			CBT7-		
1/2	1 1/2	1	0	9-*◆	235	9-*◆-G0	303	A	9-*◆-D0	429	L	9-*◆-W0	572	N	9-*◆-C0	454	S1
1/2	2	1	0	12-*◆	269	12-*◆-G0	336	A	12-*◆-D0	462	L	12-*◆-W0	606	N	12-*◆-C0	488	S1
1	3	1	0	16-*◆	294	16-*◆-G0	361	A	16-*◆-D0	488	L	16-*◆-W0	631	N	16-*◆-C0	513	S1
2	3	1	0	23-*◆	311	23-*◆-G0	378	A	23-*◆-D0	505	L	23-*◆-W0	648	N	23-*◆-C0	530	S1
2	5	1	0	30-*◆	412	30-*◆-G0	462	A	30-*◆-D0	606	L	30-*◆-W0	745	O	30-*◆-C0	732	U1
3	5	1	0	37-*◆	462	37-*◆-G0	505	A	37-*◆-D0	648	L	37-*◆-W0	795	O	37-*◆-C0	782	U1
3	7 1/2	1	0	43-*◆	530	43-*◆-G0	595	A	43-*◆-D0	791	M	43-*◆-W0	860	O	43-*◆-C0	841	U1
5	10	1	0	60-*◆	631	60-*◆-G0	791	B	60-*◆-D0	967	O	60-*◆-W0	1046	O	60-*◆-C0	951	U1
5	15	1	0	72-*◆	690	72-*◆-G0	841	B	72-*◆-D0	1026	O	72-*◆-W0	1105	O	72-*◆-C0	1010	U1
7 1/2	15	1	0	85-*◆	749	85-*◆-G0	909	B	85-*◆-D0	1085	O	85-*◆-W0	1175	O	85-*◆-C0	1077	U1

NOTE: Catalog numbers, list prices and enclosure dimensions reflect contactors with AC coils. For DC coils, select Coil Code from the DC Coil Code table on page C86 and follow the instructions for modifying catalog numbers and list prices.



Ordering Instructions

Specify Catalog Number	
Replace (*) with Coil Code	See page C86
Replace (◆) with O/L Relay	See pages C87-C88
Factory Modifications available	See pages C89-C92

- ① Dimensional information starts on page C108.
- ② For M3 outdoor applications, replace "D" in catalog number with an "R". Price remains the same, dimensions may change. Example: CBT7-23-*◆-D0 becomes CBT7-23-*◆-R0.
- ③ Contactors are equipped with number and type of auxiliaries indicated. See page C91 to order additional or different auxiliary contacts.

Single Phase, Reversing CBUTR7 (Reconnectable Winding – Three Lead Motor)

Maximum Horsepower Single Ø		Auxiliary Contacts per Contactor ③		Open Type	Type 1 (M1) General Purpose	D I M	Type 12 (M12) [Type 3R (M3) ②] Industrial Dusttight	D I M	Type 4 (M4) Watertight	D I M	Type 4X (F4) Watertight Corrosion Resistant Non-metallic	D I M					
115V	230V	NO	NC ④										Catalog No.	Price	Catalog No.	Price	①
				CBUTR7			CBUTR7				CBUTR7			CBUTR7			
1/2	1 1/2	1	1	-9-*-◆	429	-9-*-◆-G0 ⑤	673	A	-9-*-◆-D0 ⑤	723	M	-9-*-◆-W0	774	N	-9-*-◆-C0 ⑤	757	U1
1/2	2	1	1	-12-*-◆	496	-12-*-◆-G0 ⑤	740	A	-12-*-◆-D0 ⑤	791	M	-12-*-◆-W0	841	N	-12-*-◆-C0 ⑤	824	U1
1	3	1	1	-16-*-◆	538	-16-*-◆-G0 ⑤	782	A	-16-*-◆-D0 ⑤	833	M	-16-*-◆-W0	892	N	-16-*-◆-C0 ⑤	875	U1
2	3	1	1	-23-*-◆	580	-23-*-◆-G0 ⑤	824	A	-23-*-◆-D0 ⑤	875	M	-23-*-◆-W0	934	N	-23-*-◆-C0 ⑤	917	U1
2	5	1	1	-30-*-◆	715	-30-*-◆-G0 ⑤	959	A	-30-*-◆-D0 ⑤	1010	M	-30-*-◆-W0	1060	O	-30-*-◆-C0 ⑤	1043	U1

Single Phase, Reversing CBUTS7 (Series Winding – Four Lead Repulsion Induction Motor)

Maximum Horse-power Single Ø		Auxiliary Contacts per Contactor ⓘ		Open Type	Type 1 (M1) General Purpose		D I M	Type 12 (M12) [Type 3R (M3) ⓘ]		D I M	Type 4 (M4) Watertight		D I M	Type 4X (F4) Watertight Corrosion Resistant Non-metallic		D I M	
115V	230V	NO	NC ⓘ		Catalog No.	Price		Catalog No.	Price		ⓘ	Catalog No.		Price	ⓘ		Catalog No.
				CBUTS7		CBUTS7			CBUTS7			CBUTS7			CBUTS7		
1/2	1 1/2	1	1	-9-*-◆	429	-9-*-◆-G0 ⓘ	673	A	-9-*-◆-D0 ⓘ	723	M	-9-*-◆-W0	774	N	-9-*-◆-C0 ⓘ	757	U1
1/2	2	1	1	-12-*-◆	496	-12-*-◆-G0 ⓘ	740	A	-12-*-◆-D0 ⓘ	791	M	-12-*-◆-W0	841	N	-12-*-◆-C0 ⓘ	824	U1
1	3	1	1	-16-*-◆	538	-16-*-◆-G0 ⓘ	782	A	-16-*-◆-D0 ⓘ	833	M	-16-*-◆-W0	892	N	-16-*-◆-C0 ⓘ	875	U1
2	3	1	1	-23-*-◆	580	-23-*-◆-G0 ⓘ	824	A	-23-*-◆-D0 ⓘ	875	M	-23-*-◆-W0	934	N	-23-*-◆-C0 ⓘ	917	U1
2	5	1	1	-30-*-◆	715	-30-*-◆-G0 ⓘ	959	A	-30-*-◆-D0 ⓘ	1010	M	-30-*-◆-W0	1060	O	-30-*-◆-C0 ⓘ	1043	U1

Single Phase, Reversing CBUTP7 (Parallel Winding – Four Lead Capacitor or Split Phase Motor)

Maximum Horse-power Single Ø		Auxiliary Contacts per Contactor ⓘ		Open Type	Type 1 (M1) General Purpose		D I M ⓘ	Type 12 (M12) [Type 3R (M3) ⓘ] Industrial Dusttight		D I M ⓘ	Type 4 (M4) Watertight		D I M ⓘ	Type 4X (F4) Watertight Corrosion Resistant Non-metallic		D I M ⓘ	
115V	230V	NO	NC ⓘ		Catalog No.	Price		Catalog No.	Price		Catalog No.	Price		Catalog No.	Price		Catalog No.
				CBUTP7		CBUTP7			CBUTP7			CBUTP7			CBUTP7		
1/2	1 1/2	1	1	-9-*-*◆	429	-9-*-*◆-G0 ⓘ	673	A	-9-*-*◆-D0 ⓘ	723	M	-9-*-*◆-W0	774	N	-9-*-*◆-C0 ⓘ	757	U1
1/2	2	1	1	-12-*-*◆	496	-12-*-*◆-G0 ⓘ	740	A	-12-*-*◆-D0 ⓘ	791	M	-12-*-*◆-W0	841	N	-12-*-*◆-C0 ⓘ	824	U1
1	3	1	1	-16-*-*◆	538	-16-*-*◆-G0 ⓘ	782	A	-16-*-*◆-D0 ⓘ	833	M	-16-*-*◆-W0	892	N	-16-*-*◆-C0 ⓘ	875	U1
2	3	1	1	-23-*-*◆	580	-23-*-*◆-G0 ⓘ	824	A	-23-*-*◆-D0 ⓘ	875	M	-23-*-*◆-W0	934	N	-23-*-*◆-C0 ⓘ	917	U1
2	5	1	1	-30-*-*◆	715	-30-*-*◆-G0 ⓘ	959	A	-30-*-*◆-D0 ⓘ	1010	M	-30-*-*◆-W0	1060	O	-30-*-*◆-C0 ⓘ	1043	U1

NOTE: Catalog numbers, list prices and enclosure dimensions reflect contactors with AC coils. For DC coils, select Coil Code from the DC Coil Code table on page C86 and follow the instructions for modifying catalog numbers and list prices.



Ordering Instructions

Specify Catalog Number	
Replace (*) with Coil Code	See page C86
Replace (◆) with O/L Relay	See pages C87-C88
Factory Modifications available	See pages C89-C92

- ① Dimensional information starts on page C108.
- ② For M3 outdoor applications, replace "D" in catalog number with an "R". Price remains the same, dimensions may change. Example: CBUTx7-23-*◆-D0 becomes CBUTx7-23-*◆-R0.
- ③ Contactors are equipped with number and type of auxiliaries indicated. See page C91 to order additional or different auxiliary contacts.
- ④ One N.C. auxiliary contact is used for electrical interlocking. On CAUT7 reversing starters, the N.C. contact comes from the Mechanical/Electrical Interlock unit (Cat # CM7-02).

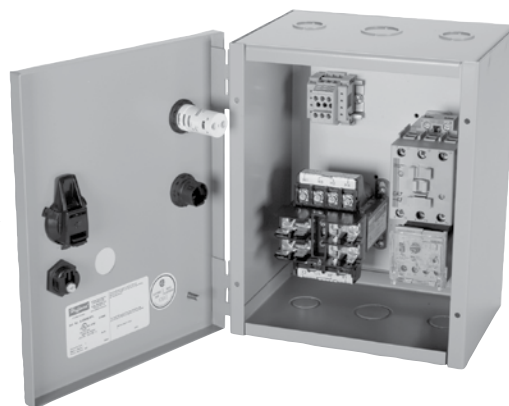
NEMA Sized Open and Enclosed Magnetic Motor Starters

Built to your specifications and ready to install

Sprecher + Schuh magnetic motor starters are intended to eliminate the purchase and assembly of a separate contactor, overload relay and associated wiring. When purchased with an enclosure, the starters are mounted and ready to install on receipt.

Starting with the best

At the heart of all Sprecher + Schuh NEMA sized magnetic motor starters is the CATN7 and CATN6 line of motor starters. Each starter proudly displays the NEMA size (00, 0, 1, 2, 3, 4 or 5) and HP at applied voltage. This line of starters is designed to meet rigid consultant specifications for NEMA starters.



Even though these are the most popular enclosure types for most industrial applications, we can house any starter in a custom enclosure of your choosing.

Quality enclosures ensure the highest confidence

Sprecher + Schuh only sources enclosures from name brand manufacturers, ensuring the highest quality. We primarily use enclosures that meet UL Standards, i.e., Type 1, Type 3R, etc., however, we can also source other enclosures at your request. Enclosures are sized first to accommodate the depth of the contactor and offer sufficient electrical clearances to satisfy UL.

Add a variety of modifications

If you need a larger enclosure than what is specified in our catalog, your sales representative and our Engineering department will work with you to customize any of our enclosed products to suit your exact specifications. Any combination of enclosure types, sizes, pilot devices, meters and other modifications can be combined to provide exactly the panel you need.

Top line protection...

NEMA magnetic starters are equipped with Sprecher + Schuh's premium CEP7 solid state overload relay. Unlike traditional overload relays that indirectly sense motor current through heater elements, CEP7 solid state overload relays measure motor current directly through integrated current transformers and on board electronics. The electronics provide numerous advantages over electromechanical relays. Alternatively, the CT7N Thermal Overload Relay may also be selected.



CAN7 NEMA labeled contactor (AC)

The right enclosure... whatever the application

Sprecher + Schuh's line of NEMA style starters can be purchased pre-installed in a variety of standard enclosures. Cataloged enclosures include:

- | | |
|---------------|---------------------------------|
| Type 1 (M1) | General Purpose |
| Type 12 (M12) | Industrial Dusttight |
| Type 3R (M3) | Raintight (outdoor) |
| Type 4 (M4) | Watertight |
| Type 4X (F4) | Watertight, Corrosion Resistant |



CAN6 NEMA labeled contactor (AC)



C46



Type 1



Type 3R



Type 4



Type 4X

Three Phase, Non-Reversing CATN7, CATN6

NEMA Size	Maximum Horsepower Three Phase				Auxiliary Contacts per Contactor ③		Open Type	Price	Type 1 (M1) General Purpose	Price	D I M	Type 12 (M12) [Type 3R (M3) ②] Industrial Dusttight	Price	D I M
	200V	230V	460V	575V	NO	NC								
							Catalog Number		Catalog Number		①	Catalog Number		①
00	1-1/2	1-1/2	2	2	1	0	CATN7-12-*-*◆	269	CATN7-12-*-*◆-G0 ⑤	336	A	CATN7-12-*-*◆-D0 ⑤	462	L
0	3	3	5	5	1	0	CATN7-16-*-*◆	294	CATN7-16-*-*◆-G0 ⑤	361	A	CATN7-16-*-*◆-D0 ⑤	488	L
1	7-1/2	7-1/2	10	10	1	0	CATN7-37-*-*◆	462	CATN7-37-*-*◆-G0 ⑤	505	A	CATN7-37-*-*◆-D0 ⑤	648	L
2	10	15	25	25	1	0	CATN7-43-*-*◆	530	CATN7-43-*-*◆-G0 ⑤	595	A	CATN7-43-*-*◆-D0 ⑤	789	L
3	25	30	50	50	1	0	CATN7-85-*-*◆	749	CATN7-85-*-*◆-G0 ⑤	909	B	CATN7-85-*-*◆-D0 ⑤	1085	M
4	40	50	100	100	1	1	CATN6-180-*-*◆ ④	2525	CATN6-180-*-*◆-G0 ④	3324	G	CATN6-180-*-*◆-D0 ④	3787	T
5	75	100	200	200	1	1	CATN6-300-EI-*-*◆	4208	CATN6-300-EI-*-*◆-G0	6060	I	CATN6-300-EI-*-*◆-D0	6228	I

Three Phase, Non-Reversing CATN7, CATN6

NEMA Size	Maximum Horsepower Three Phase				Auxiliary Contacts per Contactor ③		Type 4 (M4) Watertight	Price	D I M	Type 4X (F4) Watertight Corrosion Resistant Non-metallic	Price	D I M
	200V	230V	460V	575V	NO	NC						
							Catalog Number		①	Catalog Number		①
00	1-1/2	1-1/2	2	2	1	0	CATN7-12-*-*◆-W0	606	N	CATN7-12-*-*◆-C0 ⑤	488	S1
0	3	3	5	5	1	0	CATN7-16-*-*◆-W0	631	N	CATN7-16-*-*◆-C0 ⑤	513	S1
1	7-1/2	7-1/2	10	10	1	0	CATN7-37-*-*◆-W0	799	N	CATN7-37-*-*◆-C0 ⑤	782	U1
2	10	15	25	25	1	0	CATN7-43-*-*◆-W0	866	N	CATN7-43-*-*◆-C0 ⑤	841	U1
3	25	30	50	50	1	0	CATN7-85-*-*◆-W0	1178	O	CATN7-85-*-*◆-C0 ⑤	1077	U1
4	40	50	100	100	1	1	CATN6-180-*-*◆-W0 ④	4082	T	CATN6-180-*-*◆-C0 ④	4881	X1
5	75	100	200	200	1	1	CATN6-300-EI-*-*◆-W0	6901	J	CATN6-300-EI-*-*◆-C0	7154	Y1

NOTE: Catalog numbers, list prices and enclosure dimensions reflect contactors with AC coils. For DC coils, select Coil Code from the DC Coil Code table on page C86 and follow the instructions for modifying catalog numbers and list prices.

 This item is available in the **ORANGE EXPRESS** 3-day shipping program. See selection guide for details.

Ordering Instructions

Specify Catalog Number	
Replace (*) with Coil Code	See page C86
Replace (◆) with O/L Relay	See pages C87-C88
Factory Modifications available	See pages C89-C92

- ① Dimensional information starts on page C108.
- ② For M3 outdoor applications, replace "D" in catalog number with an "R". Price remains the same, dimensions may change. Example: CATN7-37-*-*◆-D0 becomes CATN7-37-*-*◆-R0.
- ③ Contactors are equipped with number and type of auxiliaries indicated. See page C91 to order additional or different auxiliary contacts.
- ④ CATN6-180 starters are available with electronic interface coil "EI". Change catalog number to include "-EI". Example: CATN6-180-*-*◆ becomes CATN6-180-EI-*-*◆. See page C86 for price adder.

Single Phase, Non-Reversing CBTN7

NEMA Size	Maximum HP Single ø		Auxiliary Contacts per Contactor ③		Open Type	Price	Type 1 (M1) General Purpose	Price	D I M	Type 12 (M12) [Type 3R (M3) ②] Industrial Dusttight	Price	D I M
	115V	230V	NO	NC								
00	1/3	1	1	0	CBTN7-12-*-*◆	269	CBTN7-12-*-*◆-G0 ④	336	A	CBTN7-12-*-*◆-D0 ④	462	L
0	1	2	1	0	CBTN7-16-*-*◆	294	CBTN7-16-*-*◆-G0 ④	361	A	CBTN7-16-*-*◆-D0 ④	488	L
1	2	3	1	0	CBTN7-37-*-*◆	462	CBTN7-37-*-*◆-G0 ④	505	A	CBTN7-37-*-*◆-D0 ④	648	L
2	3	7-1/2	1	0	CBTN7-43-*-*◆	530	CBTN7-43-*-*◆-G0 ④	595	A	CBTN7-43-*-*◆-D0 ④	789	L
3	7-1/2	15	1	0	CBTN7-85-*-*◆	749	CBTN7-85-*-*◆-G0 ④	909	B	CBTN7-85-*-*◆-D0 ④	1085	M

Single Phase, Non-Reversing CBTN7

NEMA Size	Maximum HP Single ø		Auxiliary Contacts per Contactor ③		Type 4 (M4) Watertight	Price	D I M	Type 4X (F4) Watertight Corrosion Resistant Non-metallic	Price	D I M
	115V	230V	NO	NC						
00	1/3	1	1	0	CBTN7-12-*-*◆-W0	606	N	CBTN7-12-*-*◆-C0 ④	488	S1
0	1	2	1	0	CBTN7-16-*-*◆-W0	631	N	CBTN7-16-*-*◆-C0 ④	513	S1
1	2	3	1	0	CBTN7-37-*-*◆-W0	799	N	CBTN7-37-*-*◆-C0 ④	782	U1
2	3	7-1/2	1	0	CBTN7-43-*-*◆-W0	866	N	CBTN7-43-*-*◆-C0 ④	841	U1
3	7-1/2	15	1	0	CBTN7-85-*-*◆-W0	1178	O	CBTN7-85-*-*◆-C0 ④	1077	U1

NOTE: Catalog numbers, list prices and enclosure dimensions reflect contactors with AC coils. For DC coils, select Coil Code from the DC Coil Code table on page C86 and follow the instructions for modifying catalog numbers and list prices.



Ordering Instructions

Specify Catalog Number	
Replace (*) with Coil Code	See page C86
Replace (◆) with O/L Relay	See pages C87-C88
Factory Modifications available	See pages C89-C92

- ① Dimensional information starts on page C108.
- ② For M3 outdoor applications, replace "D" in catalog number with an "R". Price remains the same, dimensions may change. Example: CBTN7-37-*-*◆-D0 becomes CBTN7-37-*-*◆-R0.
- ③ Contactors are equipped with number and type of auxiliaries indicated. See page C91 to order additional or different auxiliary contacts.