

LISTEN.
THINK.
SOLVE.®



Our Global Short-Circuit Current Rating Selection Tool. Your comprehensive guide for every motor starter circuit.

Short-circuit protection of motor starters, soft-starters and drives,
fully tested in accordance with UL and IEC standards.

Making sure that a motor starter circuit fulfils a required Short Circuit Current Rating (SCCR) can be a very challenging and time-consuming task. Our new online product selection tool gives you all the guidance you need to select the most appropriate short-circuit protection devices, no matter what type of motor starter you are using.

Convenient, comprehensive, and based on compliance to IEC and UL standards, this new tool saves you valuable time, effort and money in selecting the right components for the job.

- Co-ordinated high-fault SCCR ratings for all power devices used in a circuit
- Tables available for all common global application voltages, 220-690V, 50 or 60 Hz
- Provides a specific selection table for application parameters
- Supported by signed 'Test Summary Letter' confirming data and compliance
- One-line 'Bills-of-Material' for all motor power ratings in every category
- Online tool, always up-to-date data



2-Component
Starters

3-Component
Starters

Soft Starter
SMC™-3

Soft Starter
SMC™-50

Soft Starter
SMC™ Flex

PowerFlex® AC Drives

To find out more, visit:

www.rockwellautomation.com/go/globalscrr

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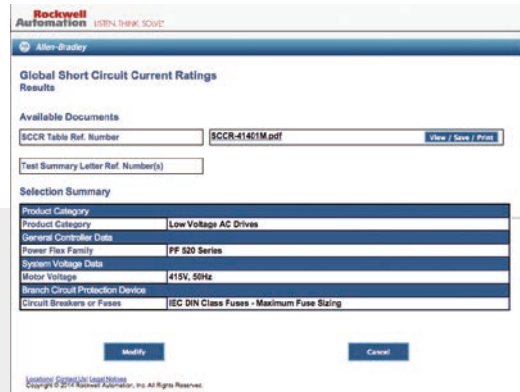
**Rockwell
Automation**

The right components, in the right combination.

Rockwell Automation components have been tested under the most severe fault conditions with our range of motor starters, soft-starters and drives, enabling you to make the most of your automation investment.

Component compatibility information

All combinations reported in the SCCR tool have been fully tested and supported by a signed 'Test Summary Letter'.



Application Details

Main circuit parameters used during the tests

Motor Ratings

Easily identify the motor power rating of your application

Breaker Type

Most appropriate protective device in accordance with circuit and motor requirements

Contactor Type

Catalogue number of recommended input or output contactor

Options Available

Catalogue numbers if other devices are required. Graph identifies options

Co-ordination Type

All combinations have been tested to Type 2 Co-ordination according to IEC for full motor and circuit protection

Short-circuit Coordination

Starter Type: AC Variable Frequency Drive PowerFlex 525
 S.C. Protective Device: IEC Fuses, DIN gG, 500V
 Input/Output Contactor: 100-C, 100S-C
 Rated Operational Voltage: 415V 50Hz
 Test Voltage: 600V 60Hz
 Rated Conditional S.C. Current (kA): 100kA (rms sym.)
 Level of S.C. Coordination: Type "1" or "2" per IEC 60947-4

Motor Ratings		Drive Ratings - Normal Duty ¹⁾		w/ EMC Filter		SCPD - Fuse		Line Reactor		Contactor		Optional Bypass Starter ²⁾		IEC Coordination		
3 ph	1500 rpm	Input	Output	w/ EMC Filter Cat. No.	w/ EMC Filter Cat. No.	Min. Fuse Size IEC Class	Disconnect Switch Cat. No.	Input/Output	Input Cat. No.	Output Cat. No.	Input Cat. No.	Output Cat. No.	DLR Cat. No.	AS range	Coordination Type	Remark
0.4	1.0	1.7	1.9	1.4	25B-D1P4N104	25B-D1P4N114	DIN NH 000, gG	3	194R-D32-1763	1321-3RA1-C-B	100-C09	100-C09	100-C09	193-EECB	1.0 - 3.0	---
0.75	1.8	2.8	3.2	2.3	25B-D2P3N104	25B-D2P3N114	DIN NH 000, gG	4	194R-D32-1763	1321-3RA2-A-A	100-C09	100-C09	100-C09	193-EECB	1.0 - 3.0	---
1.0	2.6	3.7	4.0	3.0	25B-D4P2N104	25B-D4P2N114	DIN NH 000, gG	6	194R-D32-1763	1321-3RA4-B-B	100-C09	100-C09	100-C09	193-EECB	1.0 - 3.0	---
1.5	3.5	5.2	5.7	4.0	25B-D4P3N104	25B-D4P3N114	DIN NH 000, gG	10	194R-D32-1763	1321-3RA4-B-B	100-C09	100-C09	100-C09	193-EECB	1.0 - 3.0	---
2.2	4.7	6.9	7.5	6.0	25B-D6P2N104	25B-D6P2N114	DIN NH 000, gG	10	194R-D32-1763	1321-3RA8-C-C	100-C09	100-C09	100-C09	193-EECB	1.0 - 3.0	---
4	8.2	12.6	13.8	10.0	25B-D010N104	25B-D010N114	DIN NH 000, gG	20	194R-D32-1763	1321-3RA8-B-B	100-C12	100-C12	100-C12	193-EECB	3.2 - 16	Type 2
5.5	11.1	14.1	15.4	13.0	25B-D013N104	25B-D013N114	DIN NH 000, gG	20	194R-D32-1763	1321-3RA12-B-B	100-C12	100-C12	100-C12	193-EECB	3.2 - 16	---
7.5	14.9	18.8	20.4	17.0	25B-D017N104	25B-D017N114	DIN NH 000, gG	25	194R-D32-1763	1321-3RA18-B-B	100-C16	100-C16	100-C16	193-EECB	3.2 - 16	---
11	21	24.1	26.4	24.0	25B-D024N104	25B-D024N114	DIN NH 000, gG	35	194R-D63-1763	1321-3RA25-B-B	100-C23	100-C23	100-C23	193-EECB	3.2 - 27	---
15	28	30.2	33.0	30.0	25B-D030N104	25B-D030N114	DIN NH 000, gG	45	194R-D63-1763	1321-3RA25-B-B	100-C29	100-C29	100-C29	193-EECB	3.2 - 27	---
18.5	34	39.3	42.7	37.0	---	---	DIN NH 000, gG	45	194R-D63-1763	1321-3RA25-B-B	100-C30	100-C30	100-C30	193-EECB	3.2 - 27	---
22	40	45.8	49.9	43.0	---	---	DIN NH 000, gG	45	194R-D63-1763	1321-3RA45-B-B	100-C30	100-C30	100-C30	193-EECB	3.2 - 27	---

Motor Ratings		Drive Ratings - Heavy Duty ³⁾		w/ EMC Filter		SCPD - Fuse		Line Reactor		Contactor		Optional Bypass Starter ²⁾		IEC Coordination		
3 ph	1500 rpm	Input	Output	w/ EMC Filter Cat. No.	w/ EMC Filter Cat. No.	Min. Fuse Size IEC Class	Disconnect Switch Cat. No.	Input/Output	Input Cat. No.	Output Cat. No.	Input Cat. No.	Output Cat. No.	DLR Cat. No.	AS range	Coordination Type	Remark
0.4	1.0	1.7	1.9	1.4	25B-D1P4N104	25B-D1P4N114	DIN NH 000, gG	3	194R-D32-1763	1321-3RA1-C-B	100-C09	100-C09	100-C09	193-EECB	1.0 - 3.0	---
0.75	1.8	2.6	3.2	2.3	25B-D2P3N104	25B-D2P3N114	DIN NH 000, gG	4	194R-D32-1763	1321-3RA2-A-A	100-C09	100-C09	100-C09	193-EECB	1.0 - 3.0	---
1.0	2.6	3.7	4.0	3.0	25B-D4P2N104	25B-D4P2N114	DIN NH 000, gG	6	194R-D32-1763	1321-3RA4-B-B	100-C09	100-C09	100-C09	193-EECB	1.0 - 3.0	---
1.5	3.5	5.2	5.7	4.0	25B-D4P3N104	25B-D4P3N114	DIN NH 000, gG	10	194R-D32-1763	1321-3RA4-B-B	100-C09	100-C09	100-C09	193-EECB	1.0 - 3.0	---
2.2	4.7	6.9	7.5	6.0	25B-D6P2N104	25B-D6P2N114	DIN NH 000, gG	10	194R-D32-1763	1321-3RA8-C-C	100-C09	100-C09	100-C09	193-EECB	1.0 - 3.0	---
4	8.2	12.6	13.8	10.0	25B-D010N104	25B-D010N114	DIN NH 000, gG	20	194R-D32-1763	1321-3RA8-B-B	100-C12	100-C12	100-C12	193-EECB	3.2 - 16	Type 2
5.5	11.1	14.1	15.4	13.0	25B-D013N104	25B-D013N114	DIN NH 000, gG	20	194R-D32-1763	1321-3RA12-B-B	100-C12	100-C12	100-C12	193-EECB	3.2 - 16	---
7.5	14.9	18.8	20.4	17.0	25B-D017N104	25B-D017N114	DIN NH 000, gG	25	194R-D32-1763	1321-3RA18-B-B	100-C16	100-C16	100-C16	193-EECB	3.2 - 16	---
11	21	24.1	26.4	24.0	25B-D024N104	25B-D024N114	DIN NH 000, gG	35	194R-D63-1763	1321-3RA25-B-B	100-C23	100-C23	100-C23	193-EECB	3.2 - 27	---
15	28	30.2	33.0	30.0	25B-D030N104	25B-D030N114	DIN NH 000, gG	45	194R-D63-1763	1321-3RA25-B-B	100-C29	100-C29	100-C29	193-EECB	3.2 - 27	---
18.5	34	39.3	42.7	37.0	---	---	DIN NH 000, gG	45	194R-D63-1763	1321-3RA25-B-B	100-C30	100-C30	100-C30	193-EECB	3.2 - 27	---
22	40	45.8	49.9	43.0	---	---	DIN NH 000, gG	45	194R-D63-1763	1321-3RA45-B-B	100-C30	100-C30	100-C30	193-EECB	3.2 - 27	---

¹⁾ Typical motor current per IEC 60947-4, Table G.1
²⁾ Normal & Heavy Duty Rating based on starting current (%) and time (sec)
³⁾ Minimum fuse size per PL 525 User Manual
⁴⁾ Disconnect switch provides direct mounting of DIN fuses
⁵⁾ Incomplete catalog number, add coil code and auxiliary contacts
⁶⁾ Data applies to 193-E1 Plus, E3 & E3 Plus
⁷⁾ Bypass starter sized to cover motor FLC and coordinated protection with SCPD

Note: This data is subject to change by Rockwell Automation without notice. Go to www.rockwellautomation.com/products/technology/products/selected/for for latest information.

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