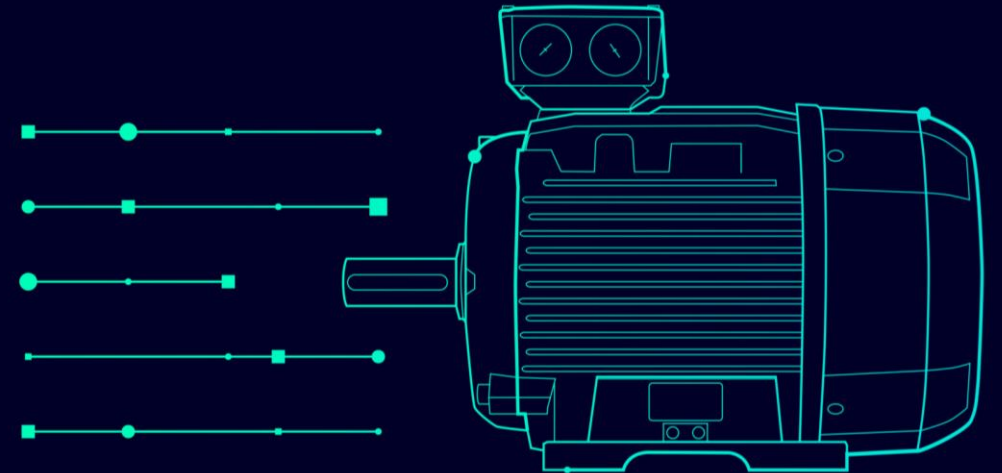
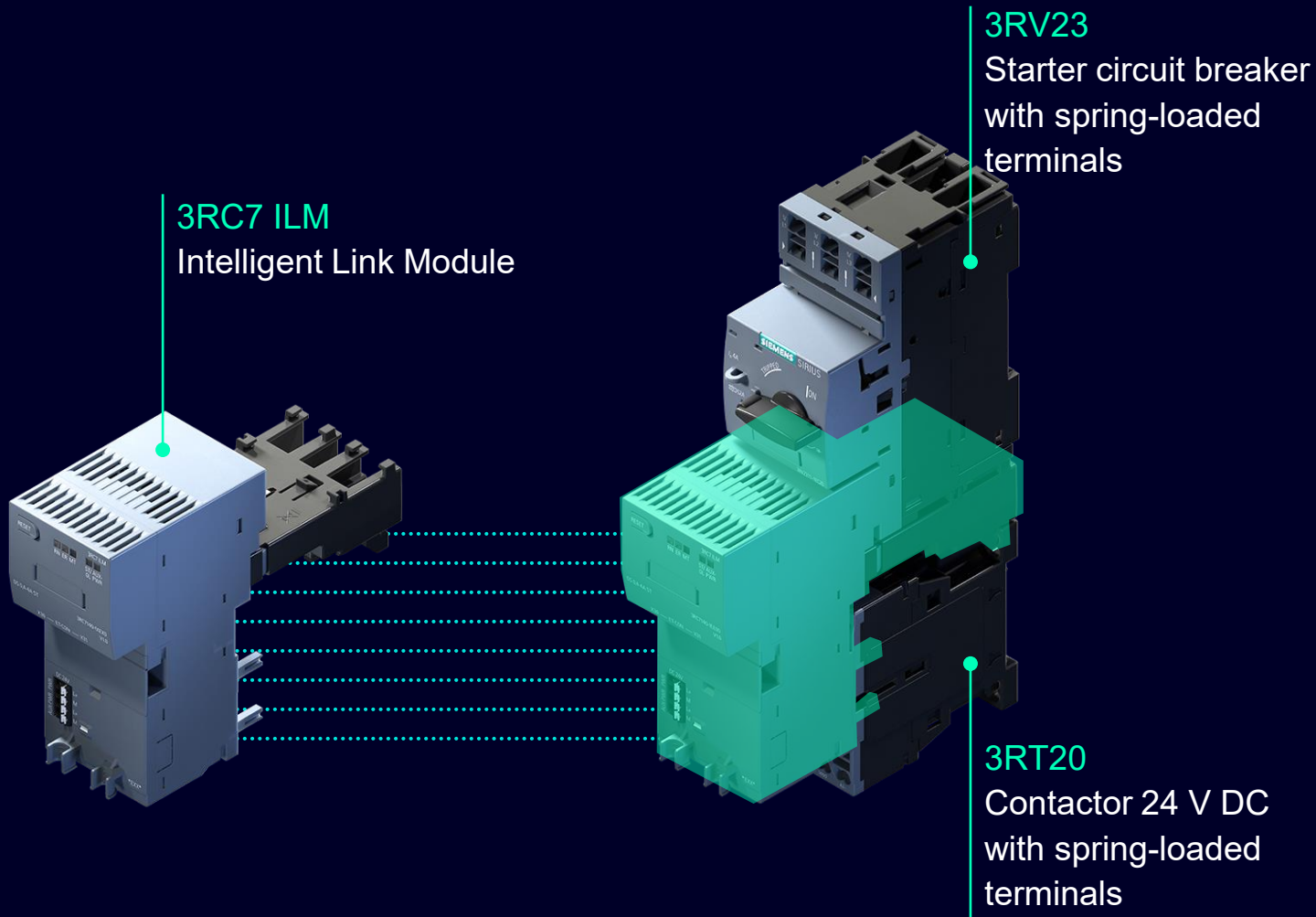


SIRIUS 3RC7

Intelligent Link Module



Connect the SIRIUS 3RC7 ILM with a 3RV23 and a 3RT20 ...



... and you will receive the following added value:

Measuring

- Current from 0.4 to 32 A (3 variants)
- Voltage range up to 600 V AC
- Power

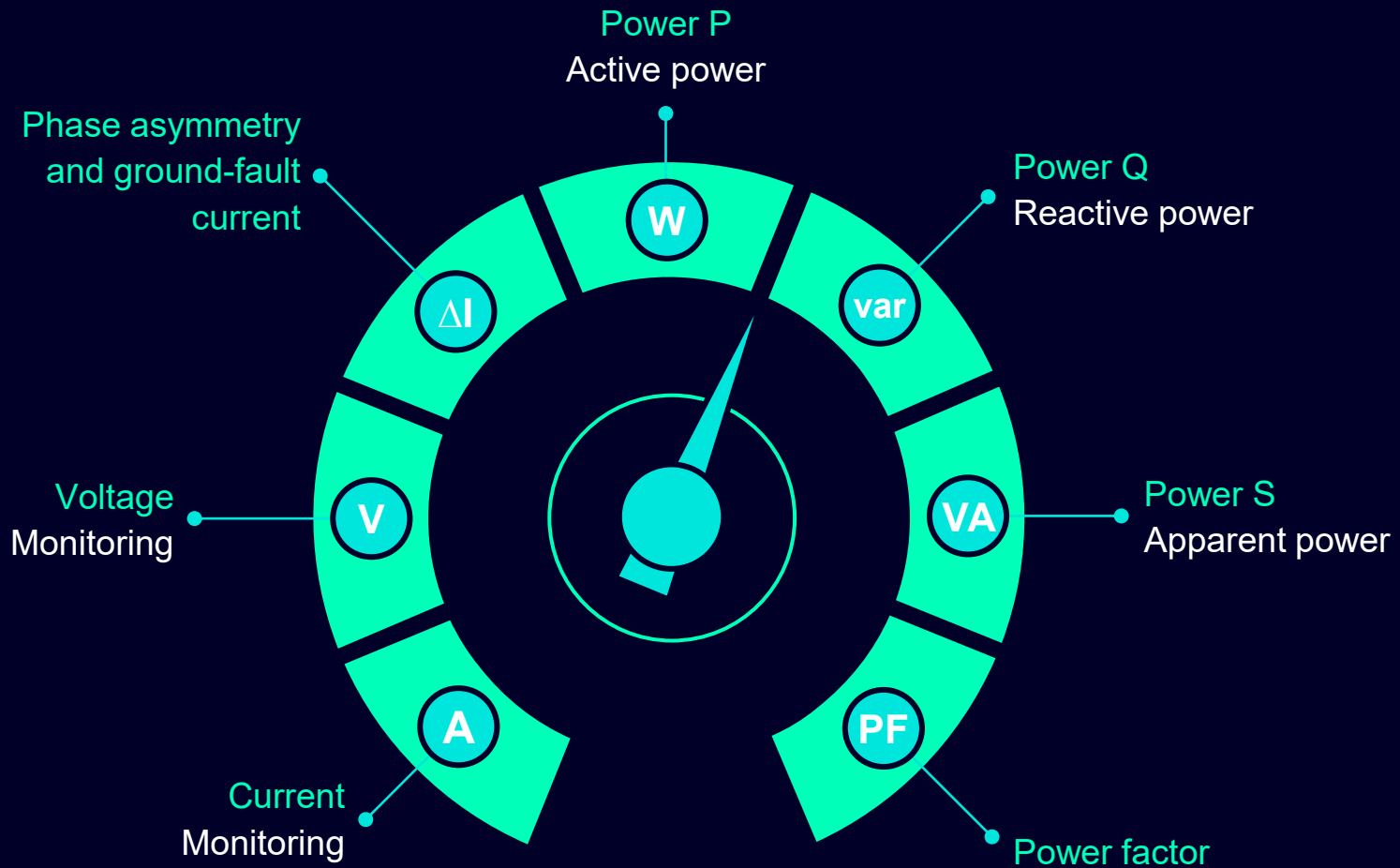
Control

- Control and feedback of the contactor
- Reduction of contactor coil consumption (PWM – Pulse Width Modulation)

Protection

- Adjustable OLR via software
- Class type 10E/20E
- Automatic, local and via command reset

The SIRIUS 3RC7 is more than just a link module



You also get a range of additional features

- + Load feeder operating hours
- + Motor operating hours
- + Number of error shutdowns
- + Starting time monitoring
- + Number of overload trips
- + Electronic temperature

Standard and high feature version of the SIRIUS 3RC7 available

Function	Standard	High feature
Control (switching element)	✓	✓
Electronic motor overload protection (overload protection)	Class 10E/20E**)	Class 10E/20E**)
Reset (from device or via command)	✓	✓
Current measurement and monitoring	✓	✓
Current asymmetry	✓	✓
Ground fault	✗	✓ *)
Mains voltage detection	✓	✓
Mains voltage measurement and monitoring	✗	✓
Supply voltage monitoring for electronics (Pwr)	✓	✓
Supply voltage monitoring for the switching element (Aux-Pwr)	✓	✓
Starting time monitoring	✓	✓
Power measurement (Power factor, apparent, reactive and active power)	✗	✓
Operating temperature measurement	✓	✓
Emergency start	✓	✓
Group diagnostic (Activated / deactivated)	✓	✓
Cold start	✓	✓
Reversing starter variant	✓	✓
Short-circuit strength (480 V)	65 kA	65 kA

Applies to the following current ranges and sizes:

- 0.4 – 4 A (Size S00)
- 1.2 – 12 A (Size S00)
- 3.5 – 32 A (Size S0)

*) Function planned with FW update

**) Class 20E up to 20 Amps.

You get the same added value with the SIRIUS 3RA8 Intelligent Load Feeder



3RA8 is a combination of SIRIUS 3RV2 MSP, SIRIUS 3RT2 contactor and the SIRIUS 3RC7 intelligent link module – fully assembled and ready for use.

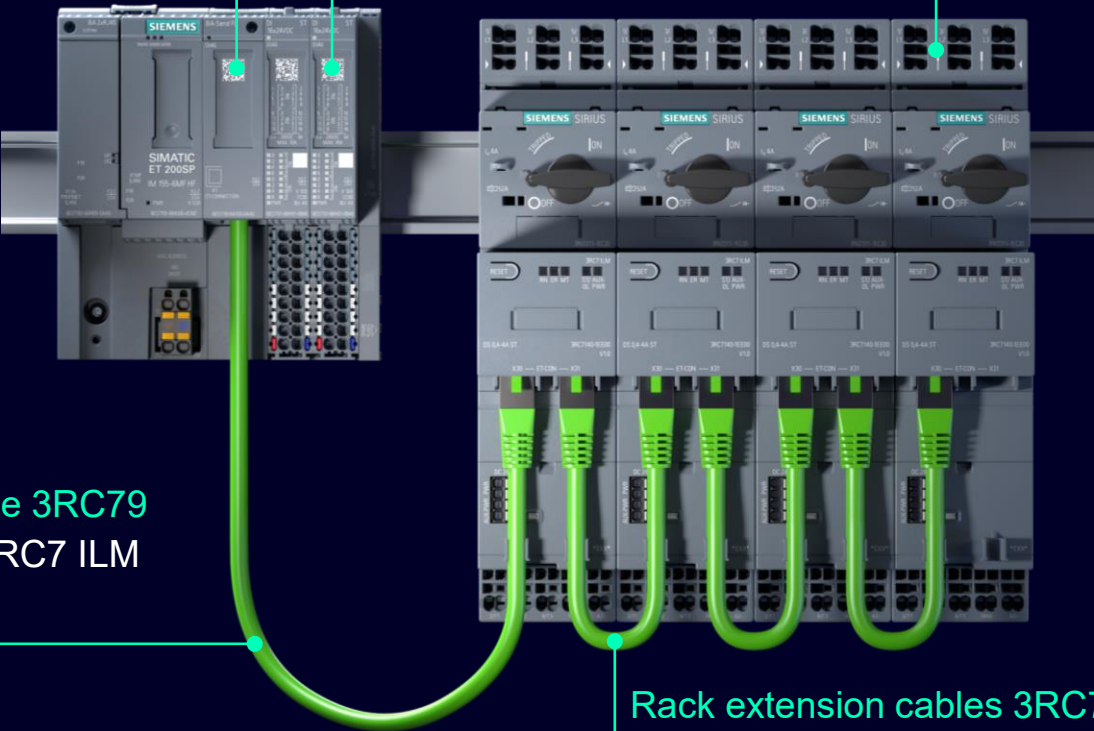
Typical configuration



ET-connection
Bus adapter BA-Send
+ Base Unit BU-Send

DI/DQ modules
(optional)

Starter circuit breaker 3RV23
with spring-loaded terminals



Rack extension cable 3RC79
from ET 200SP to 3RC7 ILM
with precut length

Rack extension cables 3RC79
from 3RC7 ILM to 3RC7 ILM with precut length



Up to 16 load feeders per interface



No address configuration required



No PC required for replacing devices



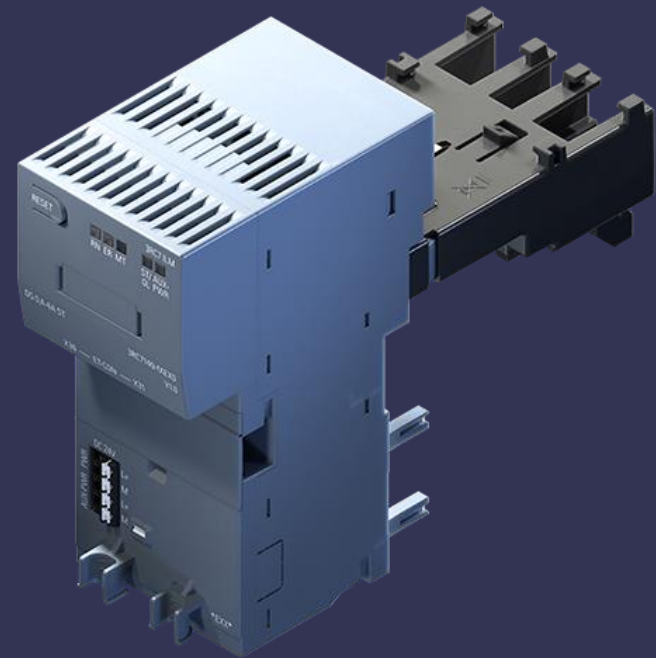
Interface to load feeder: up to 10 m



Between load feeders: up to 2 m

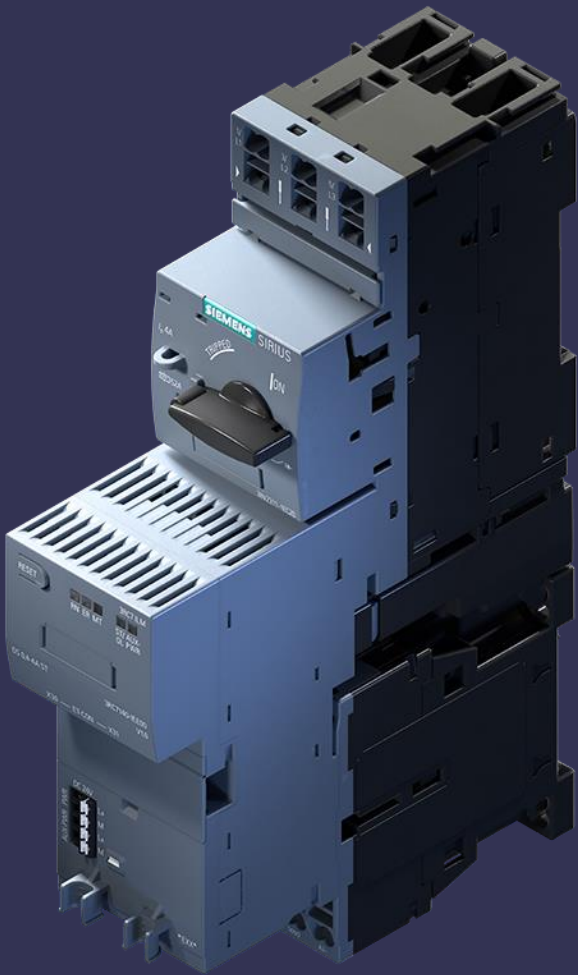
SIRIUS 3RC7 Intelligent link module

Starter type	Version	Current range (size)	Article number
Direct starter	Standard	0.4 – 4 A (S00)	3RC7140-1EE00
		1.2 – 12 A (S00)	3RC7140-1KE00
		3.5 – 32 A (S0)	3RC7140-4EE01
	High feature	0.4 – 4 A (S00)	3RC7140-1EE10
		1.2 – 12 A (S00)	3RC7140-1KE10
		3.5 – 32 A (S0)	3RC7140-4EE11
Reverse starter	Standard	0.4 – 4 A (S00)	3RC7141-1EE00
		1.2 – 12 A (S00)	3RC7141-1KE00
		3.5 – 32 A (S0)	3RC7141-4EE01
	High feature	0.4 – 4 A (S00)	3RC7141-1EE10
		1.2 – 12 A (S00)	3RC7141-1KE10
		3.5 – 32 A (S0)	3RC7141-4EE11



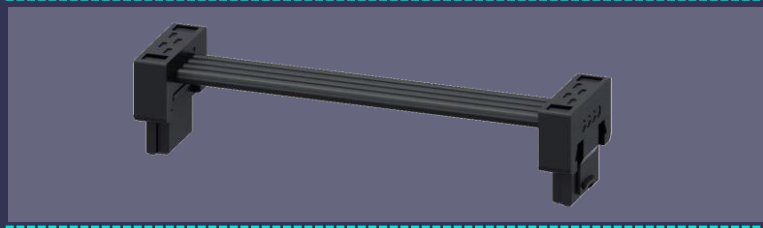
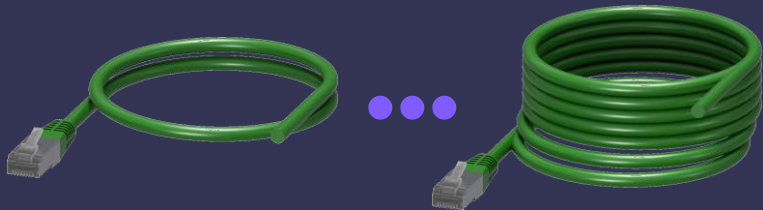
SIRIUS 3RA8 Intelligent load feeder

Starter type	Version	Current range (size)	Article number
Direct starter	Standard	0.4 – 4 A (S00)	3RA8412-1EE00
		1.2 – 12 A (S00)	3RA8411-1KE00
		3.5 – 32 A (S0)	3RA8422-4EE00
	High Feature	0.4 – 4 A (S00)	3RA8412-1EE10
		1.2 – 12 A (S00)	3RA8411-1KE10
		3.5 – 32 A (S0)	3RA8422-4EE10
Reverse starter	Standard	0.4 – 4 A (S00)	3RA8512-1EE00
		1.2 – 12 A (S00)	3RA8511-1KE00
		3.5 – 32 A (S0)	3RA8522-4EE00
	High Feature	0.4 – 4 A (S00)	3RA8512-1EE10
		1.2 – 12 A (S00)	3RA8511-1KE10
		3.5 – 32 A (S0)	3RA8522-4EE10



SIRIUS 3RC7 and 3RA8 cables

Cable type	Description	Article number
Rack extension communication cable from ET 200SP to 3RC7 ILM	0.5 m	3RC7940-0TE10
	2 m	3RC7940-0TE20
	5 m	3RC7940-0TE30
	10 m	3RC7940-0TE40
Rack extension communication cable from 3RC7 ILM to 3RC7 ILM	For side by side mounting using a direct starter – 0.21 m	3RC7940-0TE01
	For side by side mounting using a reverse starter – 0.26 m	3RC7940-0TE02
	For load feeders – 0.75 m	3RC7940-0TE03
	For load feeders –1.5 m	3RC7940-0TE04
	For load feeders – 2.0 m	3RC7940-0TE05
Power Cable (optional)	For side by side mounting using a direct starter – 40 mm	3RC7940-1TE01
	For side by side mounting using a reverse starter – 85mm	3RC7940-1TE02



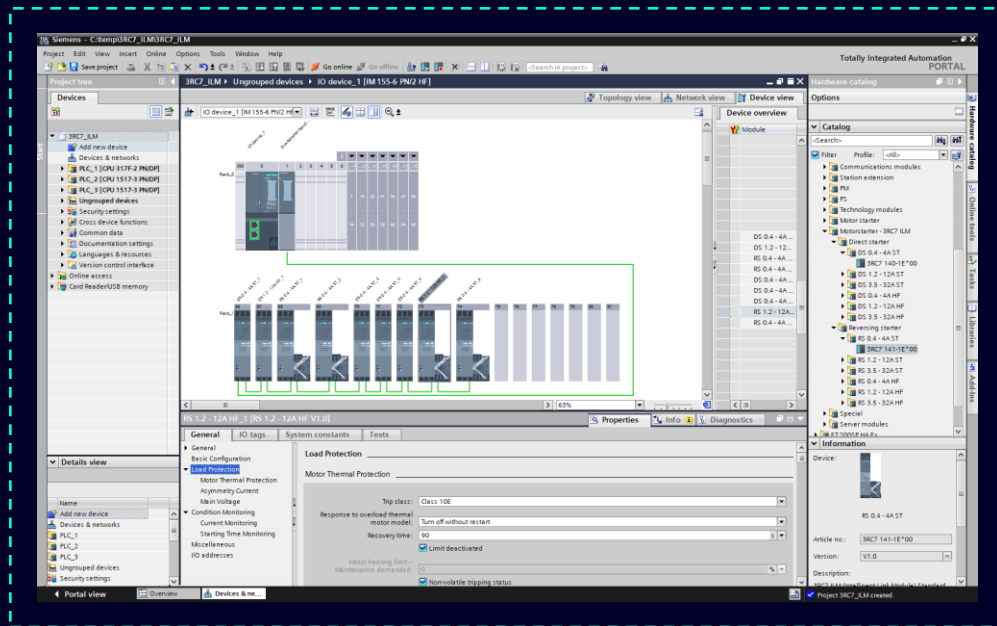
Recommended combinations

Certified up to 600 V, class 10E and class 20E

Starter type	Size	Individual components for combination				Corresponds to load feeder 3RA8 ILF	
		MSP ⁽¹⁾	Contactor	3RC7 ILM			Mounting kit
Direct	S00	3RV2311-1EC20	3RT2017-2BB42	I _e = 0.4 – 4.0 A:	3RC7140-1EE.0 ⁽²⁾	3RA8412-1EE.0 ⁽²⁾	
	S00	3RV2311-1KC20	3RT2017-2BB42	I _e = 1.2 – 12 A:	3RC7140-1KE.0 ⁽²⁾	3RA8411-1KE.0 ⁽²⁾	
	S0	3RV2321-4EC20	3RT2027-2BB40	I _e = 3.5 – 32 A:	3RC7140-4EE.1 ⁽²⁾	3RA8422-4EE.0 ⁽²⁾	
Reverse	S00	3RV2311-1EC20	3RT2017-2BB42 (2x)	I _e = 0.4 – 4.0 A:	3RC7141-1EE.0 ⁽²⁾	3RA2913-2LA2 ⁽³⁾	3RA8512-1EE.0 ⁽²⁾
	S00	3RV2311-1KC20	3RT2017-2BB42 (2x)	I _e = 1.2 – 12 A:	3RC7141-1KE.0 ⁽²⁾	3RA2913-2LA2 ⁽³⁾	3RA8511-1KE.0 ⁽²⁾
	S0	3RV2321-4EC20	3RT2027-2BB40 (2x)	I _e = 3.5 – 32 A:	3RC7141-4EE.1 ⁽²⁾	3RA2923-2LB2	3RA8522-4EE.0 ⁽²⁾

(1) Without overload
 (2) 3RC7 ILM can be used as Standard or High Feature version
 (3) For top-hat rail mounting
 For installation in the 3RV29 feed system or on an 8US busbar, the 3RA2923-2MB2 kit must be used

As part of Totally Integrated Automation (TIA), the SIRIUS 3RC7 ILM is seamlessly integrated into the existing automation environment.



One software

- One engineering platform
- One project for all applications
- STEP 7 TIA Portal (MDD for V19 and 20)

Automatic system diagnostic

- Automatic generation on PLC firmware (no programming)
- Detail diagnostic directly on the PLC (no need to read DS 92)

Easy configuring and programming

- Small amount of parameters
- Current value per phase available in the process image
- No need of function blocks for operation

TIA Portal v20

DEMO