

Description

The capacitor banks with detuned filters of the **OPTIM FRE** series have been designed for reactive energy correction in networks with fluctuating load levels, high harmonic presence and a risk of resonance.

The power variations are relatively quick (measured in milliseconds), and the operation is thus carried out by thyristors, which are connected to a voltage controller board, so that the connection and disconnection of the capacitor is carried out with zero voltage difference. Transients are prevented between the connection and disconnection of the steps, obtaining an immediate response to the load fluctuations.

Application

The most common application is with individual loads or in installations where a quick compensation response is needed (e.g. welding units, motors for lifting units, lifts, etc.) and where the network has high harmonic content.







Specifications

Losses (W)	< 0,5 W/kvar
Discharge resistance	75 V / 3 min
Surge	10 $\%$ 8 h over 24 h 15 $\%$ up to 15 min over 24 hours 20 $\%$ up to 5 min over 24 hours 30 $\%$ up to 1 min over 24 hours
Reinforcement voltage	440 V
Tolerance C	-5% / 10 %
Voltage	400 V (50 Hz) (other voltages on request)
Mechanical characteristics	
Size (mm) width x height x depth	1200 x 1900 x 650 (mm)
Envelope	Sheet metal RAL 7035 Grey / RAL 3005 Garnet
Fastening	Vertical / Self-supporting
Ventilation	Natural or forced according to options
Weight (kg)	440
Environmental characteristics	
Protection class	IP 21
Relative humidity (without condensation)	80%
Working temperature	$T^{\rm a}$ class D: Daily average: 45 °C, annual average: 35 °C, maximum: 55 °C, minimum –50 °C
Current measurement circuit	
Permanent overload	1,3 In
Transformation ratio	In / 5A
Standards	
Electrical safety, Maximum height (m)	2000 m
Standards	UNE-EN 61921, UNE-EN 61439-1, UNE EN 60831
Features / performance	
Components	CLZ capacitor Static switching unit on each stage, made up of static contactors (thyristors) Two-pole circuit breaker protection for capacitor bank and regulator operations. Reactive energy regulator of the Computer MAX-f Built-in thermostat on the heatsink for disconnecting the stage in the case of excessive temperatures (90 °C) Detuned filters tuned to 189 Hz for protection against harmonics present i the network and for preventing resonance with harmonics of the 5th order or higher.
Optional	Manual switch on capacitor bank header Circuit breaker on capacitor bank header Circuit breaker + earth leakage protection on capacitor bank header Forced ventilation unit + thermostat Polycarbonate sheet for protection against direct contacts 400/230 V autotransformer







Protection

Element

Protection by stage by fuses with high cut-off power (APR). NH-00 series.

OPTIM FRE

Automatic capacitor banks with rejection filters (static contactor), 50 Hz.

REAGRIBB OPTIM FRES-90-440 74 90 4 70 REAG REAGE WITTER TS 150 3 95 REAGEZA OPTIM FREA-150-440 145 175 3 120 REAGEZA OPTIM FREA-250-440 165 200 3 150 REAGEZA OPTIM FREA-250-440 207 250 3 185 REAGEZA OPTIM FREA-350-440 289 350 4 240 REAGEZA OPTIM FREA-300-440 289 350 4 2x150 REAGEZA OPTIM FREA-400-440 331 400 5 2x185 REAGLAS OPTIM FREA-400-440 372 450 5 2x185 REAGLAS OPTIM FREA-50-440 413 500 5 2x240 REAGLAS OPTIM FREE-600-440 496 600 6 2x240 REAGLAS OPTIM FREE-650-440 537 650 7 3x150 REAGLAS OPTIM FREE-700-440 <th>CODE</th> <th>TYPE</th> <th>kvar (400 V)</th> <th>kvar (440 V)</th> <th>Nr steps</th> <th>Cable section (mm2)</th>	CODE	TYPE	kvar (400 V)	kvar (440 V)	Nr steps	Cable section (mm2)
REFECT 150 150 3 95 150 150 3 95 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150	FRES					
R6424. OPTIM FRE4-150-440 125 150 3 95 R6425. OPTIM FRE4-175-440 145 175 3 120 R6428. OPTIM FRE4-200-440 165 200 3 150 R6428. OPTIM FRE4-250-440 207 250 3 185 R6430. OPTIM FRE4-350-440 289 350 4 240 R64632. OPTIM FRE4-30-440 331 400 4 2x185 R64634. OPTIM FRE6-400-440 331 400 5 2x185 R6435. OPTIM FRE6-400-440 372 450 5 2x185 R6435. OPTIM FRE6-500-440 413 500 5 2x240 R6435. OPTIM FRE6-500-440 413 500 5 2x240 R6436. OPTIM FRE6-500-440 496 600 7 2x240 R6436. OPTIM FRE6-600-440 496 600 7 2x240 R64436. OPTIM FRE6-500-440 537	R64R88.	OPTIM FRES-90-440	74	90	4	70
R6425. OPTIM FRE4-175-440 145 175 3 120 R6428. OPTIM FRE4-200-440 165 200 3 150 R6429. OPTIM FRE4-300-440 207 250 3 185 R6430. OPTIM FRE4-300-440 248 300 4 240 R6432. OPTIM FRE4-400-440 331 400 4 2x150 R6434. OPTIM FRE4-400-440 331 400 4 2x185 R6430. OPTIM FRE6-400-440 331 400 5 2x185 R6431. OPTIM FRE6-400-440 372 450 5 2x185 R6431. OPTIM FRE6-50-440 413 500 5 2x240 R6440. OPTIM FRE6-50-440 455 550 6 2x240 R6458. OPTIM FRE6-600-440 496 600 7 2x240 R6648. OPTIM FRE8-600-440 579 700 7 3x150 R6648. OPTIM FRE8-700-440 579	FRE4					
R6428. OPTIM FRE4-200-440 165 200 3 150 R6429. OPTIM FRE4-250-440 207 250 3 185 R6429. OPTIM FRE4-300-440 248 300 4 240 R6434. OPTIM FRE4-350-440 381 400 4 2x185 R6434. OPTIM FRE4-400-440 31 400 4 2x185 R6435. OPTIM FRE6-400-440 31 400 5 2x185 R6435. OPTIM FRE6-450-440 372 450 5 2x185 R6436. OPTIM FRE6-50-440 413 500 5 2x240 R6436. OPTIM FRE6-500-440 496 600 6 2x240 R6436. OPTIM FRE6-600-440 496 600 7 2x240 R66436. OPTIM FRE8-600-440 537 650 7 3x150 R66436. OPTIM FRE8-750-440 579 700 7 3x150 R66436. OPTIM FRE8-750-440 620	R64E24.	OPTIM FRE4-150-440	125	150	3	95
R64229. OPTIM FRE4-250-440 207 250 3 185 R64200. OPTIM FRE4-300-440 248 300 4 240 R64232. OPTIM FRE4-350-440 289 350 4 2x150 R64234. OPTIM FRE4-400-440 331 400 4 2x185 R7665. USTIM FRE6-400-440 331 400 5 2x185 R64320. OPTIM FRE6-400-440 372 450 5 2x185 R64330. OPTIM FRE6-450-440 413 500 5 2x240 R64340. OPTIM FRE6-500-440 455 550 6 2x240 R64430. OPTIM FRE6-600-440 496 600 7 2x240 R64430. OPTIM FRE6-600-440 496 600 7 2x240 R64438. OPTIM FRE8-600-440 537 650 7 3x150 R64438. OPTIM FRE8-600-440 579 700 7 3x150 R64440. OPTIM FRE8-750-440 <td< td=""><td>R64E25.</td><td>OPTIM FRE4-175-440</td><td>145</td><td>175</td><td>3</td><td>120</td></td<>	R64E25.	OPTIM FRE4-175-440	145	175	3	120
R64E30. OPTIM FRE4-300-440 248 300 4 240 R64E32. OPTIM FRE4-350-440 289 350 4 2x150 R64E34. OPTIM FRE4-400-440 331 400 4 2x185 RFE6 R86J25. OPTIM FRE6-400-440 331 400 5 2x185 R64J30. OPTIM FRE6-450-440 372 450 5 2x185 R64J35. OPTIM FRE6-500-440 413 500 5 2x240 R64J40. OPTIM FRE6-500-440 496 600 6 2x240 R64J40. OPTIM FRE6-600-440 496 600 7 2x240 R64S36. OPTIM FRE8-600-440 496 600 7 2x240 R66K436. OPTIM FRE8-600-440 537 650 7 3x150 R66K436. OPTIM FRE8-750-440 579 700 7 3x150 R66K420. OPTIM FRE8-800-440 661 800 8 3x185 R66K442.	R64E28.	OPTIM FRE4-200-440	165	200	3	150
264632. OPTIM FRE4-350-440 289 350 4 2x150 264634. OPTIM FRE4-400-440 331 400 4 2x185 26425. OPTIM FRE6-400-440 331 400 5 2x185 26430. OPTIM FRE6-450-440 372 450 5 2x185 266433. OPTIM FRE6-500-440 413 500 5 2x240 266435. OPTIM FRE6-500-440 455 550 6 2x240 266440. OPTIM FRE6-600-440 496 600 6 2x240 266438. OPTIM FRE8-600-440 496 600 7 2x240 266438. OPTIM FRE8-600-440 537 650 7 3x150 2664430. OPTIM FRE8-650-440 579 700 7 3x150 2664430. OPTIM FRE8-650-440 670 750 8 3x185 2664442. OPTIM FRE8-800-440 661 800 8 2x240 / 240 2664442. OPTIM FRE10-800-440 <td>R64E29.</td> <td>OPTIM FRE4-250-440</td> <td>207</td> <td>250</td> <td>3</td> <td>185</td>	R64E29.	OPTIM FRE4-250-440	207	250	3	185
1864834. ОРТІМ FRE4-400-440 331 400 4 2x185 1864325. ОРТІМ FRE6-400-440 331 400 5 2x185 1864330. ОРТІМ FRE6-450-440 372 450 5 2x185 1864335. ОРТІМ FRE6-500-440 413 500 5 2x240 1864340. ОРТІМ FRE6-550-440 455 550 6 2x240 1864345. ОРТІМ FRE6-600-440 496 600 6 2x240 186436. ОРТІМ FRE8-600-440 496 600 7 2x240 186436. ОРТІМ FRE8-600-440 537 650 7 3x150 1864843. ОРТІМ FRE8-650-440 579 700 7 3x150 1864844. ОРТІМ FRE8-750-440 620 750 8 3x185 1864844. ОРТІМ FRE8-800-440 661 800 8 3x185 1864844. ОРТІМ FRE8-800-440 661 800 8 2x240 / 240 186425. ОРТІМ FRE8-800-440 702 850 9 2x240 / 240 186425. ОРТІМ FRE8-800-440 702 850 9 2x240 / 240 186425. ОРТІМ FRE10-800-440 744 900 9 2x240 / 240 18642630. ОРТІМ FRE10-900-440 744 900 9 2x240 / 240 186425. ОРТІМ FRE10-900-440 765 950 10 2x240 / 240 18642640. ОРТІМ FRE10-900-440 826 1000 10 2x240 / 24185 1864265. ОРТІМ FRE10-900-440 826 1000 10 2x240 / 2x185 1864265. ОРТІМ FRE10-1000-440 868 1050 11 2x240 / 2x	R64E30.	OPTIM FRE4-300-440	248	300	4	240
RE64 R64J25. OPTIM FRE6-400-440 331 400 5 2x185 R64J30. OPTIM FRE6-450-440 372 450 5 2x185 R64J30. OPTIM FRE6-500-440 413 500 5 2x240 R64J35. OPTIM FRE6-550-440 455 550 6 2x240 R64J40. OPTIM FRE6-550-440 455 550 6 2x240 R64J45. OPTIM FRE6-600-440 496 600 6 2x240 R64J45. OPTIM FRE8-600-440 496 600 7 2x240 R64J45. OPTIM FRE8-600-440 537 650 7 3x150 R64K38. OPTIM FRE8-650-440 579 700 7 3x150 R64K40. OPTIM FRE8-700-440 620 750 8 3x185 R64K41. OPTIM FRE8-800-440 661 800 8 3x185 R64K42. OPTIM FRE8-800-440 661 800 8 2x240 / 240 R64C25. OPTIM FRE8-800-440 702 850 9 2x240 / 240 R64C30. OPTIM FRE10-800-440 702 850 9 2x240 / 240 R64C30. OPTIM FRE10-800-440 702 850 9 2x240 / 240 R64C30. OPTIM FRE10-900-440 744 900 9 2x240 / 240 R64C30. OPTIM FRE10-900-440 785 950 10 2x240 / 240 R64C40. OPTIM FRE10-900-440 826 1000 10 2x240 / 2x185 R66C45. OPTIM FRE10-1000-440 826 1000 10 2x240 / 2x185 R66C45. OPTIM FRE10-1000-440 868 1050 11 2x240 /	R64E32.	OPTIM FRE4-350-440	289	350	4	2x150
864J25. OPTIM FRE6-400-440 331 400 5 2x185 864J30. OPTIM FRE6-450-440 372 450 5 2x240 864J35. OPTIM FRE6-500-440 413 500 5 2x240 864J35. OPTIM FRE6-550-440 455 550 6 2x240 864J45. OPTIM FRE6-600-440 496 600 6 2x240 864J46. OPTIM FRE8-600-440 496 600 7 2x240 864K38. OPTIM FRE8-650-440 537 650 7 3x150 864K40. OPTIM FRE8-700-440 579 700 7 3x150 864K42. OPTIM FRE8-800-440 620 750 8 3x185 864K44. OPTIM FRE8-800-440 661 800 8 2x240 / 240 864C25. OPTIM FRE10-800-440 702 850 9 2x240 / 240 864C35. OPTIM FRE10-900-440 744 900 9 2x240 / 240 864C35. OPTIM FRE1	R64E34.	OPTIM FRE4-400-440	331	400	4	2x185
864.130. OPTIM FRE6-450-440 372 450 5 2x185 864.135. OPTIM FRE6-500-440 413 500 5 2x240 864.145. OPTIM FRE6-550-440 455 550 6 2x240 864.145. OPTIM FRE6-600-440 496 600 6 2x240 864.145. OPTIM FRE8-600-440 496 600 7 2x240 864.838. OPTIM FRE8-650-440 537 650 7 3x150 864.840. OPTIM FRE8-750-440 579 700 7 3x150 864.842. OPTIM FRE8-750-440 620 750 8 3x185 864.444. OPTIM FRE8-800-440 661 800 8 2x240 / 240 864.25. OPTIM FRE10-800-440 661 800 8 2x240 / 240 864.235. OPTIM FRE10-800-440 744 900 9 2x240 / 240 864.245. OPTIM FRE10-950-440 785 950 10 2x240 / 24185 864.245.	FRE6					
R64J35. OPTIM FRE6-500-440 413 500 5 2x240 R64J40. OPTIM FRE6-550-440 455 550 6 2x240 R64J45. OPTIM FRE6-600-440 496 600 6 2x240 RERB ***********************************	R64J25.	OPTIM FRE6-400-440	331	400	5	2x185
R64J4O. OPTIM FRE6-550-440 455 550 6 2x240 R64J45. OPTIM FRE6-600-440 496 600 6 2x240 FRE8 R64K36. OPTIM FRE8-600-440 496 600 7 2x240 R64K38. OPTIM FRE8-650-440 537 650 7 3x150 R64K40. OPTIM FRE8-750-440 679 700 7 3x185 R64K42. OPTIM FRE8-800-440 661 800 8 3x185 R64C25. OPTIM FRE10-800-440 661 800 8 2x240 / 240 R64C30. OPTIM FRE10-950-440 702 850 9 2x240 / 240 R64C35. OPTIM FRE10-950-440 744 900 9 2x240 / 240 R64C45. OPTIM FRE10-1000-440 826 1000 10 2x240 / 2x185 R64C45. OPTIM FRE10-1000-440 868 1050 11 2x240 / 2x240 R64C55. OPTIM FRE12-1050-440 868 1050 11 2x240 / 2x240 R64C55. OPTIM FRE12-1100-440	R64J30.	OPTIM FRE6-450-440	372	450	5	2x185
R64J45. OPTIM FRE6-600-440 496 600 6 2x240 R64K36. OPTIM FRE8-600-440 496 600 7 2x240 R64K38. OPTIM FRE8-650-440 537 650 7 3x150 R64K40. OPTIM FRE8-700-440 579 700 7 3x150 R64K42. OPTIM FRE8-750-440 620 750 8 3x185 R64K44. OPTIM FRE8-800-440 661 800 8 3x185 R64C25. OPTIM FRE10-800-440 661 800 8 2x240 / 240 R64C25. OPTIM FRE10-800-440 702 850 9 2x240 / 240 R64C30. OPTIM FRE10-850-440 702 850 9 2x240 / 240 R64C35. OPTIM FRE10-900-440 744 900 9 2x240 / 240 R64C40. OPTIM FRE10-950-440 826 1000 10 2x240 / 2x185 R64C45. OPTIM FRE10-1000-440 826 1000 10 2x240 / 2x185 R64C55. OPTIM FRE10-1000-440 826 1000 10 2x240 / 2x185 R64C55. OPTIM FRE10-1000-440 868 1050 11 2x240 / 2x240 R64C55. OPTIM FRE10-1000-440 909 1100 11 2x240 / 2x240	R64J35.	OPTIM FRE6-500-440	413	500	5	2x240
REKES R64K36. OPTIM FRE8-600-440 496 600 7 2x240 R64K38. OPTIM FRE8-650-440 537 650 7 3x150 R64K40. OPTIM FRE8-700-440 579 700 7 3x150 R64K42. OPTIM FRE8-750-440 620 750 8 3x185 R64K44. OPTIM FRE8-800-440 661 800 8 3x185 RFE10 R64C25. OPTIM FRE10-800-440 661 800 8 2x240 / 240 R64C30. OPTIM FRE10-850-440 702 850 9 2x240 / 240 R64C35. OPTIM FRE10-900-440 744 900 9 2x240 / 240 R64C430. OPTIM FRE10-900-440 785 950 10 2x240 / 240 R64C40. OPTIM FRE10-950-440 826 1000 10 2x240 / 2x185 R6EC45. OPTIM FRE10-1000-440 826 1000 10 2x240 / 2x185 R64C50. OPTIM FRE10-1000-440 909 1100 11 2x240 / 2x240 R64C50. OPTIM FRE12-1150-440 909 1100 11 2x240 / 2x240 R64C50. OPTIM FRE12-1150-440 909 1100 11 2x240 / 2x240	R64J40.	OPTIM FRE6-550-440	455	550	6	2x240
R64K36. OPTIM FRE8-600-440 496 600 7 2x240 R64K38. OPTIM FRE8-650-440 537 650 7 3x150 R64K40. OPTIM FRE8-700-440 579 700 7 3x150 R64K42. OPTIM FRE8-750-440 620 750 8 3x185 R64K44. OPTIM FRE8-800-440 661 800 8 3x185 R64K44. OPTIM FRE10-800-440 661 800 8 2x240 / 240 R64C25. OPTIM FRE10-800-440 702 850 9 2x240 / 240 R64C30. OPTIM FRE10-850-440 702 850 9 2x240 / 240 R64C35. OPTIM FRE10-900-440 744 900 9 2x240 / 240 R64C40. OPTIM FRE10-950-440 785 950 10 2x240 / 2x185 R64C45. OPTIM FRE10-1000-440 826 1000 10 2x240 / 2x185 R64C45. OPTIM FRE10-1000-440 868 1050 11 2x240 / 2x240 R64L50. OPTIM FRE12-1150-440 909 1100 11 2x240 / 2x240 R64L50. OPTIM FRE12-1150-440 909 1100 11 2x240 / 2x240	R64J45.	OPTIM FRE6-600-440	496	600	6	2x240
R64K38. OPTIM FRE8-650-440 537 650 7 3x150 R64K40. OPTIM FRE8-700-440 579 700 7 3x150 R64K42. OPTIM FRE8-750-440 620 750 8 3x185 R64K44. OPTIM FRE8-800-440 661 800 8 3x185 R64K44. OPTIM FRE10-800-440 661 800 8 2x240 / 240 R64C25. OPTIM FRE10-800-440 702 850 9 2x240 / 240 R64C30. OPTIM FRE10-850-440 702 850 9 2x240 / 240 R64C35. OPTIM FRE10-900-440 744 900 9 2x240 / 240 R64C40. OPTIM FRE10-950-440 785 950 10 2x240 / 2x185 R64C45. OPTIM FRE10-1000-440 826 1000 10 2x240 / 2x185 R64C45. OPTIM FRE10-1000-440 868 1050 11 2x240 / 2x240 / 2x240 R64L50. OPTIM FRE12-1150-440 909 1100 11 2x240 / 2x240 R64L55. OPTIM FRE12-1150-440 909 1100 11 2x240 / 2x240	FRE8					
R64K40. OPTIM FRE8-700-440 579 700 7 3x150 R64K42. OPTIM FRE8-750-440 620 750 8 3x185 R64K44. OPTIM FRE8-800-440 661 800 8 3x185 R64K44. OPTIM FRE10-800-440 661 800 8 3x185 R64C25. OPTIM FRE10-800-440 661 800 8 2x240 / 240 R64C25. OPTIM FRE10-850-440 702 850 9 2x240 / 240 R64C35. OPTIM FRE10-950-440 744 900 9 2x240 / 240 R64C35. OPTIM FRE10-950-440 785 950 10 2x240 / 2x185 R64C40. OPTIM FRE10-950-440 826 1000 10 2x240 / 2x185 R64C45. OPTIM FRE10-1000-440 868 1050 11 2x240 / 2x240 R64L50. OPTIM FRE12-1100-440 909 1100 11 2x240 / 2x240 R64L50. OPTIM FRE12-1100-440 909 1100 11 2x240 / 2x240 R64L60. OPTIM FRE12-1150-440 950 1150 12 2x240 / 2x240	R64K36.	OPTIM FRE8-600-440	496	600	7	2x240
R64K42. OPTIM FRE8-750-440 620 750 8 3x185 R64K44. OPTIM FRE8-800-440 661 800 8 3x185 R64K44. OPTIM FRE8-800-440 661 800 8 3x185 R64C25. OPTIM FRE10-800-440 661 800 8 2x240 / 240 R64C30. OPTIM FRE10-850-440 702 850 9 2x240 / 240 R64C35. OPTIM FRE10-900-440 744 900 9 2x240 / 240 R64C40. OPTIM FRE10-950-440 785 950 10 2x240 / 2x185 R64C45. OPTIM FRE10-1000-440 826 1000 10 2x240 / 2x185 R64C5. OPTIM FRE10-1000-440 868 1050 11 2x240 / 2x240 R64L50. OPTIM FRE12-1050-440 909 1100 11 2x240 / 2x240 R64L55. OPTIM FRE12-1150-440 909 1100 11 2x240 / 2x240	R64K38.	OPTIM FRE8-650-440	537	650	7	3x150
R64K44. OPTIM FRE8-800-440 661 800 8 3x185 R64C25. OPTIM FRE10-800-440 661 800 8 2x240 / 240 R64C30. OPTIM FRE10-850-440 702 850 9 2x240 / 240 R64C35. OPTIM FRE10-900-440 744 900 9 2x240 / 240 R64C40. OPTIM FRE10-950-440 785 950 10 2x240 / 2x185 R64C45. OPTIM FRE10-1000-440 826 1000 10 2x240 / 2x185 R64C45. OPTIM FRE10-1000-440 868 1050 11 2x240 / 2x240 R64L50. OPTIM FRE12-1150-440 909 1100 11 2x240 / 2x240 R64L60. OPTIM FRE12-1150-440 950 1150 12 2x240 / 2x240	R64K40.	OPTIM FRE8-700-440	579	700	7	3x150
R64C25. OPTIM FRE10-800-440 661 800 8 2x240 / 240 R64C30. OPTIM FRE10-850-440 702 850 9 2x240 / 240 R64C35. OPTIM FRE10-900-440 744 900 9 2x240 / 240 R64C40. OPTIM FRE10-950-440 785 950 10 2x240 / 2x185 R64C45. OPTIM FRE10-1000-440 826 1000 10 2x240 / 2x185 RFRE12 R64L50. OPTIM FRE12-1050-440 868 1050 11 2x240 / 2x240 R64L50. OPTIM FRE12-1100-440 909 1100 11 2x240 / 2x240 R64L60. OPTIM FRE12-1150-440 950 1150 12 2x240 / 2x240	R64K42.	OPTIM FRE8-750-440	620	750	8	3x185
R64C25. OPTIM FRE10-800-440 661 800 8 2x240 / 240 R64C30. OPTIM FRE10-850-440 702 850 9 2x240 / 240 R64C35. OPTIM FRE10-900-440 744 900 9 2x240 / 2x185 R64C40. OPTIM FRE10-950-440 826 1000 10 2x240 / 2x185 R64C45. OPTIM FRE10-1000-440 868 1050 11 2x240 / 2x240 R64L50. OPTIM FRE12-1100-440 909 1100 11 2x240 / 2x240 R64L60. OPTIM FRE12-1150-440 950 1150 12 2x240 / 2x240	R64K44.	OPTIM FRE8-800-440	661	800	8	3x185
R64C30. OPTIM FRE10-850-440 702 850 9 2x240 / 240 R64C35. OPTIM FRE10-900-440 744 900 9 2x240 / 240 R64C40. OPTIM FRE10-950-440 785 950 10 2x240 / 2x185 R64C45. OPTIM FRE10-1000-440 826 1000 10 2x240 / 2x185 FRE12 R64L50. OPTIM FRE12-1050-440 868 1050 11 2x240 / 2x240 R64L55. OPTIM FRE12-1100-440 909 1100 11 2x240 / 2x240 R64L60. OPTIM FRE12-1150-440 950 1150 12 2x240 / 2x240	FRE10					
R64C35. OPTIM FRE10-900-440 744 900 9 2x240 / 240 R64C40. OPTIM FRE10-950-440 785 950 10 2x240 / 2x185 R64C45. OPTIM FRE10-1000-440 826 1000 10 2x240 / 2x185 FRE12 R64L50. OPTIM FRE12-1050-440 868 1050 11 2x240 / 2x240 R64L55. OPTIM FRE12-1100-440 909 1100 11 2x240 / 2x240 R64L60. OPTIM FRE12-1150-440 950 1150 12 2x240 / 2x240	R64C25.	OPTIM FRE10-800-440	661	800	8	2x240 / 240
R64C40. OPTIM FRE10-950-440 785 950 10 2x240 / 2x185 R64C45. OPTIM FRE10-1000-440 826 1000 10 2x240 / 2x185 R64L50. OPTIM FRE12-1050-440 868 1050 11 2x240 / 2x240 R64L55. OPTIM FRE12-1100-440 909 1100 11 2x240 / 2x240 R64L60. OPTIM FRE12-1150-440 950 1150 12 2x240 / 2x240	R64C30.	OPTIM FRE10-850-440	702	850	9	2x240 / 240
R64C45. OPTIM FRE10-1000-440 826 1000 10 2x240 / 2x185 FRE12 R64L50. OPTIM FRE12-1050-440 868 1050 11 2x240 / 2x240 R64L55. OPTIM FRE12-1100-440 909 1100 11 2x240 / 2x240 R64L60. OPTIM FRE12-1150-440 950 1150 12 2x240 / 2x240	R64C35.	OPTIM FRE10-900-440	744	900	9	2x240 / 240
R64L50. OPTIM FRE12-1050-440 868 1050 11 2x240 / 2x240 R64L55. OPTIM FRE12-1100-440 909 1100 11 2x240 / 2x240 R64L60. OPTIM FRE12-1150-440 950 1150 12 2x240 / 2x240	R64C40.	OPTIM FRE10-950-440	785	950	10	2x240 / 2x185
R64L50. OPTIM FRE12-1050-440 868 1050 11 2x240 / 2x240 R64L55. OPTIM FRE12-1100-440 909 1100 11 2x240 / 2x240 R64L60. OPTIM FRE12-1150-440 950 1150 12 2x240 / 2x240	R64C45.	OPTIM FRE10-1000-440	826	1000	10	2x240 / 2x185
R64L55. OPTIM FRE12-1100-440 909 1100 11 2x240 / 2x240 R64L60. OPTIM FRE12-1150-440 950 1150 12 2x240 / 2x240	FRE12					
R64L60. OPTIM FRE12-1150-440 950 1150 12 2x240 / 2x240	R64L50.	OPTIM FRE12-1050-440	868	1050	11	2x240 / 2x240
	R64L55.	OPTIM FRE12-1100-440	909	1100	11	2x240 / 2x240
R64L65. OPTIM FRE12-1200-440 992 1200 12 2x240 / 2x240	R64L60.	OPTIM FRE12-1150-440	950	1150	12	2x240 / 2x240
	R64L65.	OPTIM FRE12-1200-440	992	1200	12	2x240 / 2x240







Cable cross-section for installations with Un= 400 V. The installation company must ensure compliance with the low voltage directive at all times, in accordance with the characteristics of each installation and type of cable.







Dimensions

Connections





