

Wilo-Rexa PRO





Your advantages

- > Highly effective thanks to efficiency-optimized single-channel impellers
- > Safe to operate due to low-clogging vortex impellers
- > Verified safety: Ex-rated in accordance with ATEX as standard
- > Energy-efficient IE3 motor technology available as an option

Recommended services



Commissioning

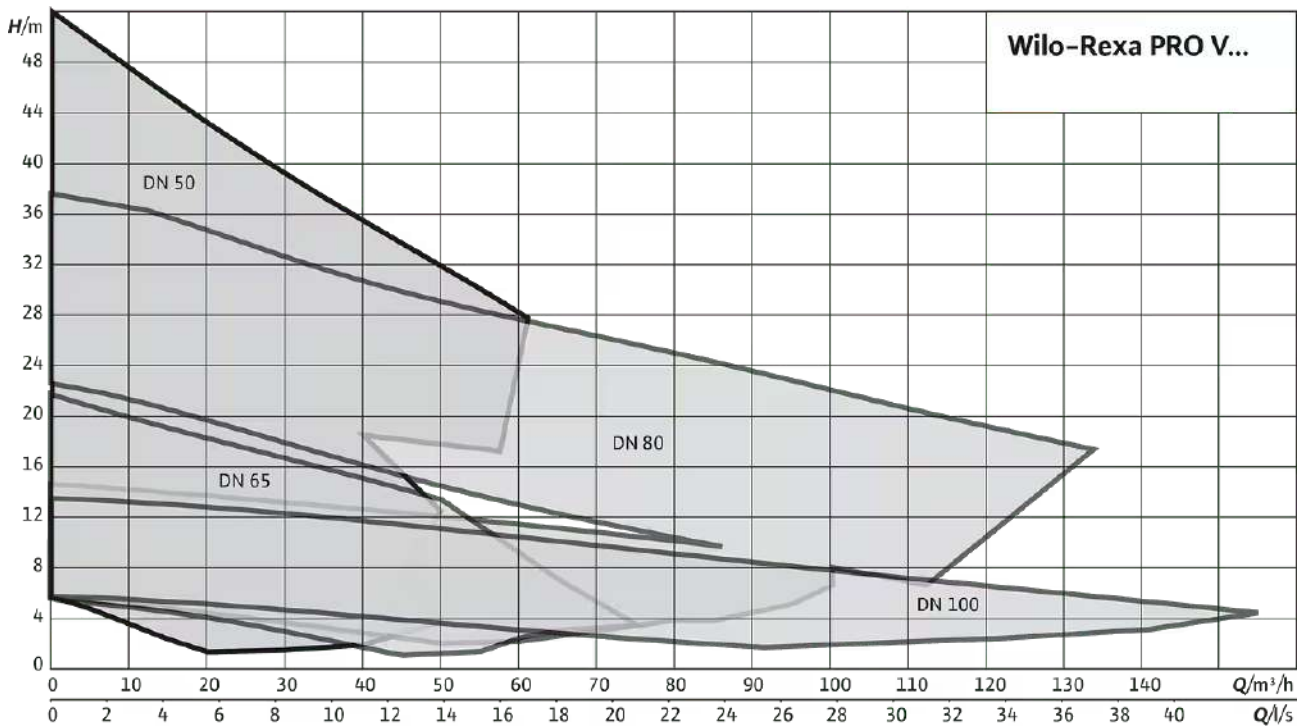
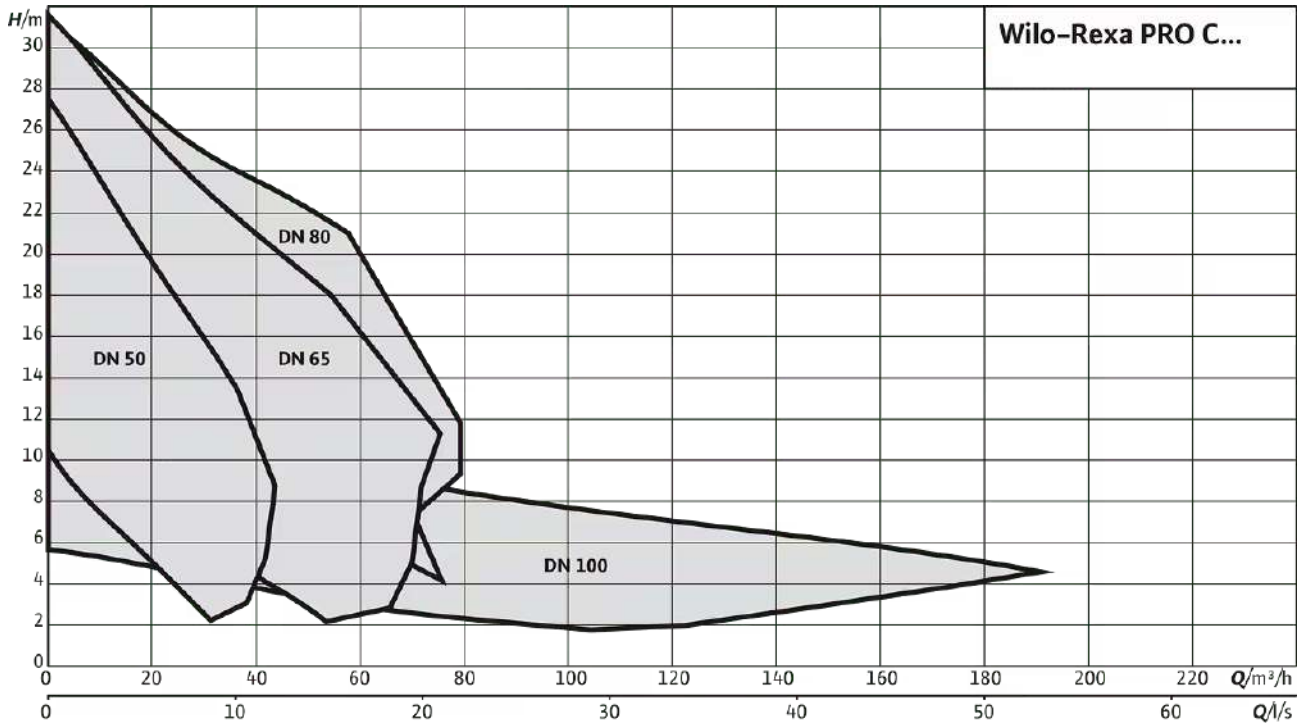


Maintenance



WiloCare





Design

Submersible sewage pump for continuous duty for stationary and portable wet installation, as well as for stationary dry installation.

Application

Pumping of

- > Untreated sewage
- > Sewage containing faeces in accordance with (DIN) EN 12050-1
- > Wastewater

Equipment/function

- > Leakage detection for the motor compartment
- > Winding temperature monitoring with bimetallic strip
- > Optional external pencil electrode for sealing chamber control
- > Single-phase version with capacitor switchgear

Typekey

Example:	Wilo-Rexa PRO V06DA-110/EAD1X2-T0015-540-O
PRO	Series name
V	Impeller type: V = Vortex impeller C = Single-channel impeller
06	Nominal diameter of pressure connection e.g. DN 65
D	Hydraulic version □ D = suction side drilled in accordance with DIN □ N = suction side drilled in accordance with ANSI (North American Standard)
A	Material version, hydraulics
110	Hydraulics definition
E	Motor version □ E = dry motor □ R = power-reduced motor
A	Material version, motor
D	Seal version □ D = with two independent mechanical shaft seals
1	IE efficiency class, e.g. 1 = IE1 (derived from IEC 60034-30)
X	Ex-approval □ X = ATEX □ F = FM □ C = CSA
2	Number of poles
T	Mains connection version: □ M = 1~ □ T = 3~
0015	Value/10 = rated motor power P ₂ in kW
5	Frequency (5 = 50 Hz, 6 = 60 Hz)
40	Code for rated voltage
O	Additional electrical equipment □ O = with bare cable end □ F = float switch with bare cable end □ A = float switch with plug □ P = with plug

Technical data

- > Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz
- > Immersed operating mode: S1
- > Non-immersed operating mode: S2-30 min; S3 25%
- > Protection class: IP 68
- > Insulation class: F
- > Fluid temperature: 3...40 °C, max. 60 °C for 3 min
- > Max. immersion depth: 20 m
- > Cable length: 10 m

Materials

- > Motor housing: EN-GJL-250
- > Hydraulics housing: EN-GJL 250
- > Impeller: EN-GJL 250 or EN-GJS-500-7
- > Static gaskets: NBR
- > Sealing on pump side: SiC/SiC
- > Sealing on motor side: C/MgSiO₄
- > Shaft end: Stainless steel 1.4021

Construction

Submersible sewage pump as submersible monobloc unit for stationary and portable wet installation, as well as stationary dry installation.

Hydraulics

The outlet on the pressure side is designed as horizontal flange connection. The maximum possible dry matter is 8 % (depending on the hydraulics) Vortex and single-channel impellers are used.

Motor

The motor versions used are single-phase current and three-phase current surface-cooled motors. For single-phase current motors, the condenser is installed in a separate switchgear. Depending on performance, activation is carried out via direct startup or star/delta startup.

The motor is cooled by the medium around it (pumped fluid or air). The waste heat is dissipated via the motor housing.

The motors can be immersed during continuous duty (S1). In submerged operation, the operating modes S1 (continuous duty), S2 (short-time duty) or S3 (intermittent) are possible depending on the rated motor power.

Furthermore the motors are equipped with the following monitoring devices:

- > Leakage detection motor compartment. The leakage detection signals water ingress into the motor compartment.
- > Thermal motor monitoring □ The thermal motor monitoring protects the motor windings against overheating. Bimetallic strips are used for this as standard.

The motor can also be fitted with an external sealing chamber electrode to monitor the sealing chamber. This signals if there is water ingress into the sealing chamber through the mechanical seal on the fluid side.

The connection cable has bare cable ends, a length of 10 m as standard, and is longitudinally watertight.

Seal

Located between the motor and hydraulics is a sealing chamber with the seal on the fluid and motor side. This sealing chamber is filled with medicinal white oil. The fluid-side and motor-side seals are provided by two mechanical seals which rotate independently of each other.

Scope of delivery

- Submersible sewage pump with 10 m cable
- Operating and maintenance manual

Options

- IE3 motors
- PTC sensor for winding monitoring
- Motor windings to insulation class "H"
- Static gaskets of Viton
- Coating Ceram C0 for housing and impeller
- Special voltages

Accessories

- Suspension unit or pump support foot
- External sealing chamber monitoring for monitoring the sealing chamber
- Switchgears, relays and plugs
- Fixation sets with anchor bolts
- Chains

Commissioning

Operation in wet well installation with non-immersed motor:

The motor can be run non-immersed. The operating times here are dependent on the rated motor power and are defined by the information in the "Operating mode for non-immersed operation". This information must be strictly observed!

- Note for intermittent operation S3: By default, the maximum operating time is 2.5 minutes in S3 operation (S3 25%). If the motor is completely immersed for 1 minute before a re-start and the necessary cooling of the motor has thus taken place, the maximum running time in S3 operation can be 5 minutes (S3 50%)!
- The maximum fluid temperature is 40 °C.

Dry well installation:

Dry well installation is possible. The operating times here are dependent on the rated motor power and are defined by the information in the "Operating mode for non-immersed operation". This information must be strictly observed!

- The maximum fluid temperature is 40 °C.
- The maximum ambient temperature is 40 °C (in accordance with EN 60335-1). Higher ambient temperatures are possible on request.

Dry-running protection system:

The hydraulics housing must always be immersed. In the case of fluctuating fluid levels, the system should shut down automatically once the minimum water submersion is reached. Please refer to the dimension drawings for this.

Horizontal installation:

Horizontal installation is **not** possible!

Product list

Product description	Discharge port	Rated power P_2	Explosion protection ATEX	Mains connection	Free ball passage of the hydraulics	Article number
Rexa PRO-C05-322A/21M011X523/O	DN 50	1.1 kW	yes	1~230 V, 50 Hz	45 mm	6098471
Rexa PRO-C05-322A/21T011X540/O	DN 50	1.1 kW	yes	3~400 V, 50 Hz	45 mm	6098472
Rexa PRO-C05-324A/21M011X523/O	DN 50	1.1 kW	yes	1~230 V, 50 Hz	45 mm	6098473
Rexa PRO-C05-324A/21T011X540/O	DN 50	1.1 kW	yes	3~400 V, 50 Hz	45 mm	6098474
Rexa PRO-C05-326A/21M015X523/O	DN 50	1.5 kW	yes	1~230 V, 50 Hz	45 mm	6098475
Rexa PRO-C05-326A/21T015X540/O	DN 50	1.5 kW	yes	3~400 V, 50 Hz	45 mm	6098476
Rexa PRO-C05-328A/21T025X540/O	DN 50	2.5 kW	yes	3~400 V, 50 Hz	45 mm	6098477
Rexa PRO-C05-329A/21T025X540/O	DN 50	2.5 kW	yes	3~400 V, 50 Hz	45 mm	6098478
Rexa PRO-C06-342A/21T025X540/O	DN 65/80	2.5 kW	yes	3~400 V, 50 Hz	45 mm	6098479
Rexa PRO-C06-344A/21T025X540/O	DN 65/80	2.5 kW	yes	3~400 V, 50 Hz	45 mm	6098480
Rexa PRO-C06-345A/21T025X540/O	DN 65/80	2.5 kW	yes	3~400 V, 50 Hz	45 mm	6098481
Rexa PRO-C06-346A/21T039X540/O	DN 65/80	3.9 kW	yes	3~400 V, 50 Hz	45 mm	6098482
Rexa PRO-C06-348A/21T039X540/O	DN 65/80	3.9 kW	yes	3~400 V, 50 Hz	45 mm	6098483
Rexa PRO-C06-349A/21T039X540/O	DN 65/80	3.9 kW	yes	3~400 V, 50 Hz	45 mm	6098484
Rexa PRO-C08-412A/21M011X523/O	DN 80	1.1 kW	yes	1~230 V, 50 Hz	55 mm	6098485
Rexa PRO-C08-412A/21T011X540/O	DN 80	1.1 kW	yes	3~400 V, 50 Hz	55 mm	6098486
Rexa PRO-C08-413A/21M015X523/O	DN 80	1.5 kW	yes	1~230 V, 50 Hz	55 mm	6098487
Rexa PRO-C08-413A/21T015X540/O	DN 80	1.5 kW	yes	3~400 V, 50 Hz	55 mm	6098488
Rexa PRO-C08-415A/21T025X540/O	DN 80	2.5 kW	yes	3~400 V, 50 Hz	55 mm	6098489
Rexa PRO-C08-417A/40M011X523/O	DN 80	1.1 kW	yes	1~230 V, 50 Hz	55 mm	6098490
Rexa PRO-C08-417A/41T011X540/O	DN 80	1.1 kW	yes	3~400 V, 50 Hz	55 mm	6098491
Rexa PRO-C08-418A/40M015X523/O	DN 80	1.5 kW	yes	1~230 V, 50 Hz	55 mm	6098492
Rexa PRO-C08-418A/41T015X540/O	DN 80	1.5 kW	yes	3~400 V, 50 Hz	55 mm	6098493
Rexa PRO-C08-432A/21T025X540/O	DN 80	2.5 kW	yes	3~400 V, 50 Hz	65 mm	6098494
Rexa PRO-C08-433A/21T025X540/O	DN 80	2.5 kW	yes	3~400 V, 50 Hz	65 mm	6098495
Rexa PRO-C08-434A/21T039X540/O	DN 80	3.9 kW	yes	3~400 V, 50 Hz	65 mm	6098496
Rexa PRO-C08-435A/21T039X540/O	DN 80	3.9 kW	yes	3~400 V, 50 Hz	65 mm	6098497
Rexa PRO-C08-436A/21T050X540/O	DN 80	5 kW	yes	3~400 V, 50 Hz	65 mm	6098498
Rexa PRO-C08-437A/21T050X540/O	DN 80	5 kW	yes	3~400 V, 50 Hz	65 mm	6098499
Rexa PRO-C08-533A/41T025X540/O	DN 80/100	2.5 kW	yes	3~400 V, 50 Hz	80 mm	6097797
Rexa PRO-C08-535A/40T035X540/O	DN 80/100	3.45 kW	yes	3~400 V, 50 Hz	80 mm	6097796
Rexa PRO-C08-537A/40T045X540/O	DN 80/100	4.5 kW	yes	3~400 V, 50 Hz	80 mm	6097795
Rexa PRO-C10-512A/40M011X523/O	DN 100	1.1 kW	yes	1~230 V, 50 Hz	100 mm	6098190
Rexa PRO-C10-512A/41T011X540/O	DN 100	1.1 kW	yes	3~400 V, 50 Hz	100 mm	6098191
Rexa PRO-C10-513A/40M015X523/O	DN 100	1.5 kW	yes	1~230 V, 50 Hz	100 mm	6098192
Rexa PRO-C10-513A/41T015X540/O	DN 100	1.5 kW	yes	3~400 V, 50 Hz	100 mm	6098193
Rexa PRO-C10-514A/41T025X540/O	DN 100	2.5 kW	yes	3~400 V, 50 Hz	100 mm	6098194
Rexa PRO-C10-516A/40T035X540/O	DN 100	3.45 kW	yes	3~400 V, 50 Hz	100 mm	6098195
Rexa PRO-C10-518A/40T035X540/O	DN 100	3.45 kW	yes	3~400 V, 50 Hz	100 mm	6098196

Product description	Discharge port	Rated power P_2	Explosion protection ATEX	Mains connection	Free ball passage of the hydraulics	Article number
Rexa PRO-C10-518A/40T045X540/O	DN 100	4.5 kW	yes	3~400 V, 50 Hz	100 mm	6076773
Rexa PRO-V05-122A/21M011X523/O	DN 50	1.1 kW	yes	1~230 V, 50 Hz	50 mm	6098432
Rexa PRO-V05-122A/21T011X540/O	DN 50	1.1 kW	yes	3~400 V, 50 Hz	50 mm	6098433
Rexa PRO-V05-124A/21M011X523/O	DN 50	1.1 kW	yes	1~230 V, 50 Hz	50 mm	6098434
Rexa PRO-V05-124A/21T011X540/O	DN 50	1.1 kW	yes	3~400 V, 50 Hz	50 mm	6098435
Rexa PRO-V05-126A/21M015X523/O	DN 50	1.5 kW	yes	1~230 V, 50 Hz	50 mm	6098436
Rexa PRO-V05-126A/21T015X540/O	DN 50	1.5 kW	yes	3~400 V, 50 Hz	50 mm	6098437
Rexa PRO-V05-222A/21T025X540/O	DN 50	2.5 kW	yes	3~400 V, 50 Hz	50 mm	6098438
Rexa PRO-V05-224A/21T025X540/O	DN 50	2.5 kW	yes	3~400 V, 50 Hz	50 mm	6098439
Rexa PRO-V05-226A/21T039X540/O	DN 50	3.9 kW	yes	3~400 V, 50 Hz	50 mm	6098440
Rexa PRO-V05-228A/21T039X540/O	DN 50	3.9 kW	yes	3~400 V, 50 Hz	50 mm	6098441
Rexa PRO-V05-323A/20T068X540/O	DN 50	6.75 kW	yes	3~400 V, 50 Hz	50 mm	6082575
Rexa PRO-V05-324A/20T105X540/O	DN 50	10.5 kW	yes	3~400 V, 50 Hz	50 mm	6082576
Rexa PRO-V05-325A/20T105X540/O	DN 50	10.5 kW	yes	3~400 V, 50 Hz	50 mm	6082577
Rexa PRO-V05-326A/20T105X540/O	DN 50	10.5 kW	yes	3~400 V, 50 Hz	50 mm	6082578
Rexa PRO-V05-328A/20T105X540/O	DN 50	10.5 kW	yes	3~400 V, 50 Hz	50 mm	6082579
Rexa PRO-V06-212A/21M011X523/O	DN 65/80	1.1 kW	yes	1~230 V, 50 Hz	65 mm	6098442
Rexa PRO-V06-212A/21T011X540/O	DN 65/80	1.1 kW	yes	3~400 V, 50 Hz	65 mm	6098443
Rexa PRO-V06-214A/21M015X523/O	DN 65/80	1.5 kW	yes	1~230 V, 50 Hz	65 mm	6098444
Rexa PRO-V06-214A/21T015X540/O	DN 65/80	1.5 kW	yes	3~400 V, 50 Hz	65 mm	6098445
Rexa PRO-V06-216A/21T025X540/O	DN 65/80	2.5 kW	yes	3~400 V, 50 Hz	65 mm	6098446
Rexa PRO-V06-222A/21T039X540/O	DN 65/80	3.9 kW	yes	3~400 V, 50 Hz	65 mm	6098447
Rexa PRO-V06-224A/21T039X540/O	DN 65/80	3.9 kW	yes	3~400 V, 50 Hz	65 mm	6098448
Rexa PRO-V06-622A/40M011X523/O	DN 65/80	1.1 kW	yes	1~230 V, 50 Hz	65 mm	6098449
Rexa PRO-V06-622A/41T011X540/O	DN 65/80	1.1 kW	yes	3~400 V, 50 Hz	65 mm	6098450
Rexa PRO-V06-623A/40M015X523/O	DN 65/80	1.5 kW	yes	1~230 V, 50 Hz	65 mm	6098451
Rexa PRO-V06-623A/41T015X540/O	DN 65/80	1.5 kW	yes	3~400 V, 50 Hz	65 mm	6098452
Rexa PRO-V06-625A/40M015X523/O	DN 65/80	1.5 kW	yes	1~230 V, 50 Hz	65 mm	6098453
Rexa PRO-V06-625A/41T015X540/O	DN 65/80	1.5 kW	yes	3~400 V, 50 Hz	65 mm	6098454
Rexa PRO-V06-626A/41T025X540/O	DN 65/80	2.5 kW	yes	3~400 V, 50 Hz	65 mm	6098455
Rexa PRO-V06-628A/41T025X540/O	DN 65/80	2.5 kW	yes	3~400 V, 50 Hz	65 mm	6098456
Rexa PRO-V08-243A/20T068X540/O	DN 80/100	6.75 kW	yes	3~400 V, 50 Hz	80 mm	6082820
Rexa PRO-V08-244A/20T105X540/O	DN 80/100	10.5 kW	yes	3~400 V, 50 Hz	80 mm	6082821
Rexa PRO-V08-245A/20T105X540/O	DN 80/100	10.5 kW	yes	3~400 V, 50 Hz	80 mm	6082822
Rexa PRO-V08-246A/20T105X540/O	DN 80/100	10.5 kW	yes	3~400 V, 50 Hz	80 mm	6082823
Rexa PRO-V08-248A/20T105X540/O	DN 80/100	10.5 kW	yes	3~400 V, 50 Hz	80 mm	6082824
Rexa PRO-V08-423A/40M011X523/O	DN 80/100	1.1 kW	yes	1~230 V, 50 Hz	80 mm	6098457
Rexa PRO-V08-423A/41T011X540/O	DN 80/100	1.1 kW	yes	3~400 V, 50 Hz	80 mm	6098458
Rexa PRO-V08-424A/40M011X523/O	DN 80/100	1.1 kW	yes	1~230 V, 50 Hz	80 mm	6098459
Rexa PRO-V08-424A/41T011X540/O	DN 80/100	1.1 kW	yes	3~400 V, 50 Hz	80 mm	6098460
Rexa PRO-V08-426A/40M015X523/O	DN 80/100	1.5 kW	yes	1~230 V, 50 Hz	80 mm	6098461

Product description	Discharge port	Rated power P_2	Explosion protection ATEX	Mains connection	Free ball passage of the hydraulics	Article number
Rexa PRO-V08-426A/41T015X540/O	DN 80/100	1.5 kW	yes	3~400 V, 50 Hz	80 mm	6098462
Rexa PRO-V08-428A/41T025X540/O	DN 80/100	2.5 kW	yes	3~400 V, 50 Hz	80 mm	6098463
Rexa PRO-V08-524A/40T035X540/O	DN 80/100	3.45 kW	yes	3~400 V, 50 Hz	80 mm	6098464
Rexa PRO-V08-526A/40T035X540/O	DN 80/100	3.45 kW	yes	3~400 V, 50 Hz	80 mm	6098465
Rexa PRO-V08-526A/40T045X540/O	DN 80/100	4.5 kW	yes	3~400 V, 50 Hz	80 mm	6073819
Rexa PRO-V08-528A/40T045X540/O	DN 80/100	4.5 kW	yes	3~400 V, 50 Hz	80 mm	6073820
Rexa PRO-V08-528A/40T065X540/O	DN 80/100	6.5 kW	yes	3~400 V, 50 Hz	80 mm	6073801
Rexa PRO-V10-422A/41T015X540/O	DN 100	1.5 kW	yes	3~400 V, 50 Hz	100 mm	6098466
Rexa PRO-V10-424A/41T025X540/O	DN 100	2.5 kW	yes	3~400 V, 50 Hz	100 mm	6098467
Rexa PRO-V10-425A/41T025X540/O	DN 100	2.5 kW	yes	3~400 V, 50 Hz	100 mm	6098468
Rexa PRO-V10-426A/40T035X540/O	DN 100	3.45 kW	yes	3~400 V, 50 Hz	100 mm	6098469
Rexa PRO-V10-428A/40T035X540/O	DN 100	3.45 kW	yes	3~400 V, 50 Hz	100 mm	6098470
Rexa PRO-V10-428A/40T045X540/O	DN 100	4.5 kW	yes	3~400 V, 50 Hz	100 mm	6081915

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