



ITT

ROBOT PUMPS

Slurry Pump

RD6141LL

50 Hz

Vortex impeller pump in wear resistant Nihard 4 for reliable transport of highly abrasive solids in high concentrations.

Pump

solids passage	: 100 mm
solids passage with agitator	: 50 mm
suction diameter	: 145 mm
discharge diameter	: 150 mm
impeller diameter	: 330 mm
recommended minimum flow	: 13 l/s (47 m ³ /h)

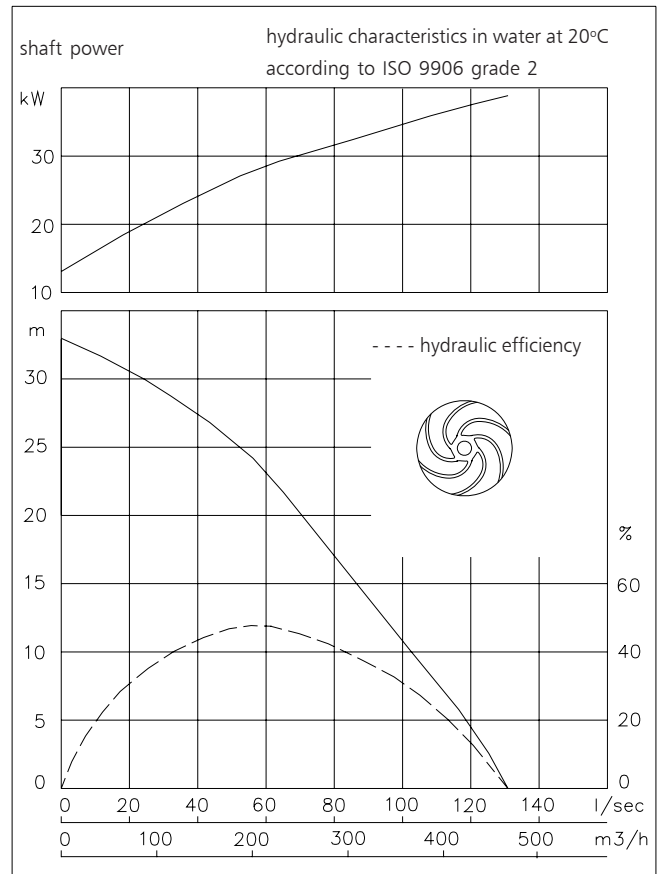
Motor

rated shaft power	: 48.0 kW
rated electrical power	: 54.4kW
mains	: 50 Hz - 3 phase
nominal speed	: 1450 rpm
rated efficiency	: 88 %
rated power factor (cos phi)	: 0.86
degree of protection	: IP 68
isolation class	: F (155 °C)
max. water temperature	: 40 °C
(higher temperatures on request)	
standard cable length version K/E	: 20 m
standard cable length version B	: 10m

Materials

motor housing	: 1
seal housing	: 7
volute	: 7
hose/flange adapter	: 7
impeller	: 7
agitator	: 7
shaft	: 3 5
bolts	: 4 5
cooling jacket	: 4
elastomers	: 8+9 10
electrical cable	: 9
seal lubrication	: oil
pump seal	: silicon carbide-ceramic
motor seal	: carbon-ceramic
primer	: Alkyd primer
top coating	: Two component high-build polyurethane coating

1	cast iron	EN-GJL-250
2	sg cast iron	EN-GJS-400-15
3	stainless steel 431	X20 CrNi 17 2
4	stainless steel 304	X5 CrNi 18 10
5	stainless steel 316	X5 CrNiMo 17 12 2
6	stainless steel 329	X4 CrNiMoN 27 5 2
7	Nihard 4	G-X300CrNiSi 9 5 2
8	nitrile	(NBR)
9	neoprene	(CR)
10	viton	(FPM)



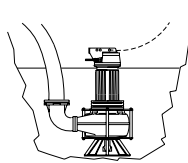
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Engineered for life



Installation options

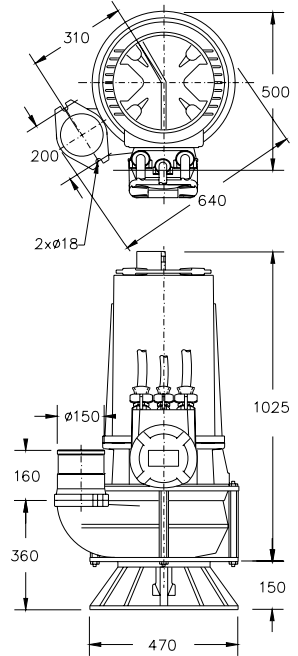
RD6141LL



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Transportable:
With support and
150 mm hose
adapter

Without cooling system the motor is cooled by the surrounding water.
With cooling system the motor can run continuously above the water level.



Version

K Heavy duty version

Standard with thermoswitches, agitator and cable connection box

E Explosion proof version

Certified according to: II 2 G Ex de IIB c T4
Available in basic and Slim Line version

Weight:

475 kg

475 kg

Optional:

Cooling system external cooling water flow min. 0.4 l/s

Flexible protective sheathing for cable (AISI 316)

Water detector in motor and oil housing (for explosion proof version only in oil housing with external cable)

Motor connection details

voltage [V]*	rated current[A]	number of cables x number of cores x cross section [mm ²]			
		basic version		explosion proof version	
		DOL-start	YD-start	DOL-start	YD-start
380	96.4	-	2x4x16+1x4x2.5	-	2x4x16+1x4x2.5
400	91.5	-	2x4x16+1x4x2.5	-	2x4x16+1x4x2.5
415	88.2	-	2x4x16+1x4x2.5	-	2x4x16+1x4x2.5
500	73.2	-	2x4x10+1x4x2.5	-	2x4x16+1x4x2.5

starting current DOL-start

: 4.4 x rated current

* other voltages on request

starting current YD-start

: 1.5 x rated current

We reserve the right to alter specifications without prior notice.