

Etaline 050-050-160 GG

ETL 050-050-160-GGSCV11 WSECD4GHB

Design data pump

Scope of supply Pump supplied by KSB	Back pull-out unit (pump without casing)	Input voltage and frequency	Without
Pump standard	EN 733	Mains voltage	400 V
Shaft axis position	Vertical	Mains frequency	50 Hz
Pump design	Close-coupled	Minimum efficiency index MEI	0.7
Pump system design	Single-pump system	Minimum permissible fluid temperature	0 °C
Specification of wetted parts	Manufactured without paint wetting impairment substances	Maximum permissible fluid temperature	110 °C
Pump direction of rotation, viewed from casing side	Counterclockwise	Quantity Stages, single-entry	1
Impeller diameter D2	174 mm	Casing wear ring design suction-side	Flat
Impeller type	Radial, closed, multi-channel	Casing wear ring design discharge-side	Flat
Free passage	11.5 mm	Installation chamber Casing cover	Conical (A-type cover)
Nut lock for Impeller	No	Bearing bracket size / shaft unit	25
Swirl break	No	Pump directive	CE
Hydraulic casing foot	No		

Nozzle connections pump

Nominal diameter Suction nozzle	DN 50	Nominal diameter Discharge nozzle	DN 50
Suction nozzle position	Opposite of discharge nozzle	Discharge nozzle design acc.to	EN1092-2
Suction nozzle design acc.to	EN1092-2		
Suction flange bolt hole pattern as per standard	EN1092-2		
Flange facing type Inlet	Raised face (B,RF)		
Flange facing type Outlet	Raised face (B,RF)		

Auxiliary connections pump

5B Venting and drain	G 1/4 Manual globe valve, fitted
----------------------	-------------------------------------

Shaft sealing

Shaft seal type	SMS A-type cover, vented	Shaft seal code	Code 11
Determined pressure Seal chamber	0.36 bar.r	Shaft seal manufacturer inboard	KSB's choice
		Mechanical seal type inboard	1
		Material Shaft seal inboard	BQ1EGG-WA

Etaline 050-050-160 GG

ETL 050-050-160-GGSCV11 WSECD4GHB

Materials

Material Volute casing	EN-GJL-250/A48 CL 35B	Material Bolts/Screws Volute casing	8.8
Material Casing cover (161)	EN-GJL-250/A48 CL 35B	Material Screw plug Volute casing	ST
Material Shaft	C45+N	Material Static seal Screw plug Volute casing	A4/AISI 316
Material Impeller (230)	EN-GJL-250/A48 CL 35B	Material Nut Impeller fastening (920.95)	(ST)
Material Static seal Volute casing (400.10)	DPAF DW001	Material Key	C45+C/A311 GR 1045 CLASS A
Material Casing wear ring suction-side	JL/LAMELLAR GRAPHITE CAST IRON		
Material Casing wear ring discharge-side (502.02)	JL/LAMELLAR GRAPHITE CAST IRON		
Material Shaft protecting sleeve (523)	(CRNIMO ST INT)		
Material Static seal Discharge cover	DPAF DW001		
Material Drive lantern	EN-GJL-250/A48 CL 35B		
Material Support foot	WITHOUT		

Driver

Drive concept	Electric actuator	Rated speed Motor	1,440 1/min
Drive standard, mechanical	IEC	Number of motor poles	4
Drive standard electric	IEC	Rated power Motor	3 kW
Motor construction type	IM V1 (IM3011) IEC 60034-7		
Motor size	100L		
Enclosure Unit	Without		

Coating

Aggregate

Surface preparation	Free from dirt, grease, rust
Properties Primer coat	Hydro dip primer, water-dilutable
Thickness Primer coat	60 µm
Properties Top coat	Polycondensate/acrylate polymer water-based
Thickness Top coat	50 µm
Colour Top coat	RAL2002 Vermilion

Packaging

Suitable for transport	Truck transport
Suitable for storage	Indoor storage
Packaging category	KSB's choice (A0)

Nameplates

Duplicate name plate	No
----------------------	----

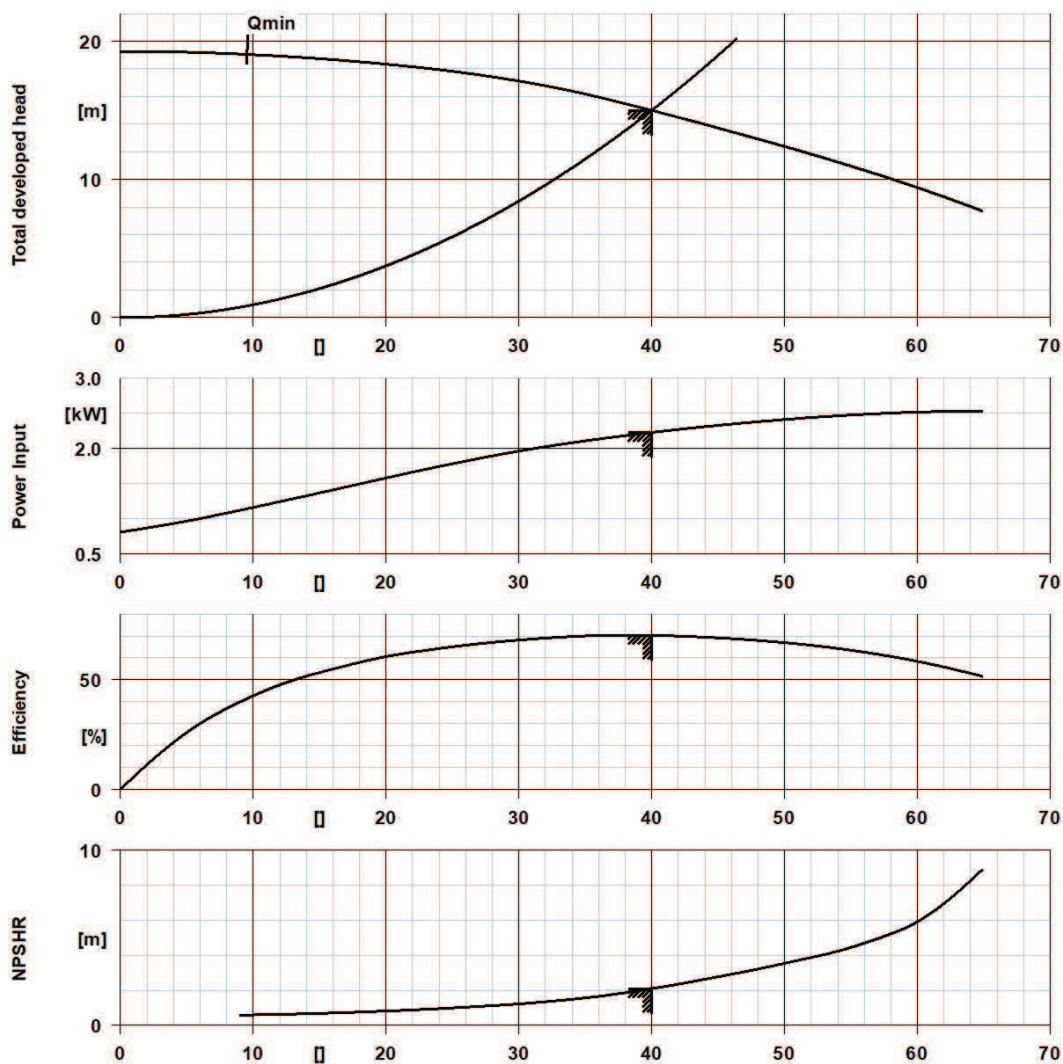
Performance Curve (Pump)



Page: 1 / 1

Etaline 050-050-160 GG

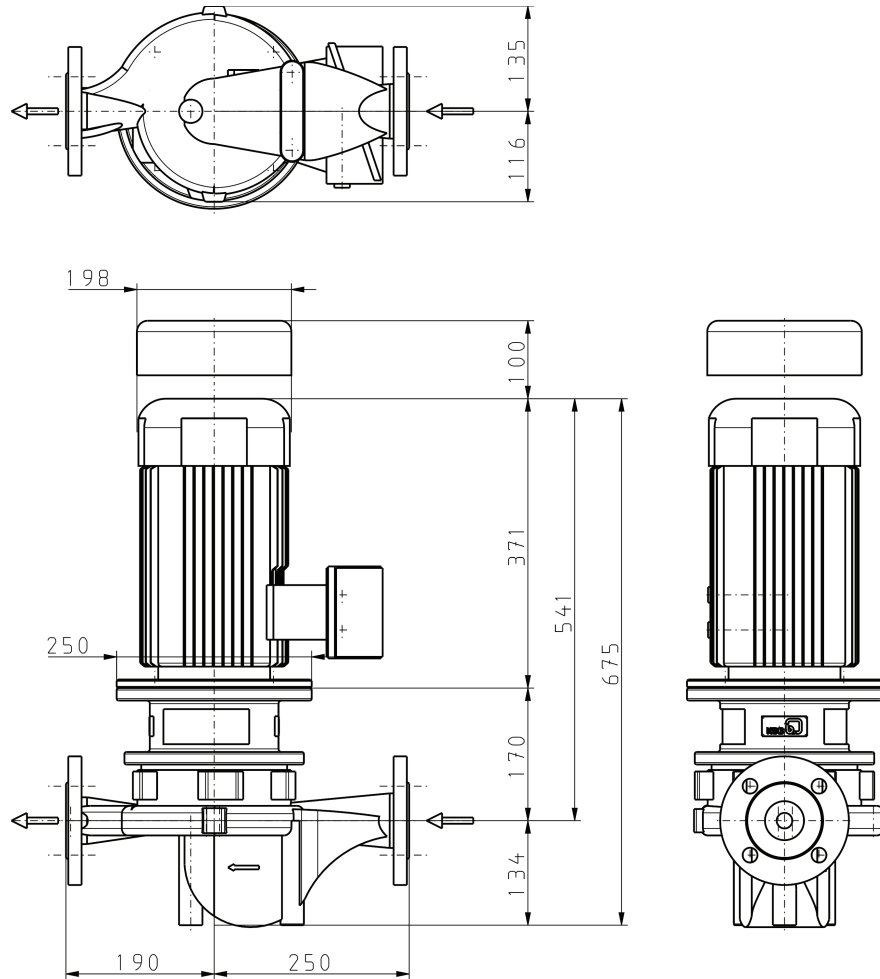
ETL 050-050-160-GGSCV11 WSECD4GHB



Curve Data

Pump speed	1,966 1/min	Efficiency Pump	70.3 %
Density Fluid handled	958 kg/m³	Minimum efficiency index MEI	0.7
Kinematic viscosity Fluid handled	0.3 mm²/s	Maximum power input at duty point	2.23 kW
Flow rate	40 m³/h	NPSH required	2.1 m
Head	15 m	Hydraulic impeller diameter	174 mm
		Hydraulic calculation according to standard/ class	EN ISO 9906 Class 3B

Etaline 050-050-160 GG
ETL 050-050-160-GGSCV11 WSECD4GHB



Drawing is not to scale.

Dimensions are given in mm

Motor

Rated power Motor 3 kW
Rated speed Motor 1,440 1/min

Connections

Nominal diameter Suction nozzle DN 50
Suction flange bolt hole pattern as per standard EN1092-2
Nominal diameter Discharge nozzle DN 50

Net weight

Total weight Pump 13.87 kg
Total weight Pump set 13.87 kg

Connect pipelines stress-free

Plan for additional connections see extra drawing



Etaline 050-050-160 GG

ETL 050-050-160-GGSCV11 WSECD4GHB

Dimensional tolerances for shaft axis height: DIN 747

Dimensions without tolerances, middle tolerances to: ISO 2768-m

Connection dimensions for pumps: EN735

Dimensions without tolerances - welded parts: ISO 13920-B

Dimensions without tolerances - gray cast iron parts: ISO 8062-CT9