

Page: 1 / 3

ETB 050-032-160-GGSBV10WS2AP4HHB

Operating point			1	Dimensioning operating point		t		
_			_	_		_		

1 mm²/s

2.09 m

Operating conditions (purchaser requirements)

8.5 m³/h	Vapour pressure determined	0.02337 bar.a
9 m	Minimum required inlet	-0.3 bar
Water	pressure	
Clean water	Specified ambient temperature	20 °C
20 °C	Installation altitude above sea 1,00 level	
998 kg/m³		
	9 m Water Clean water 20 °C	9 m Minimum required inlet Water pressure Clean water Specified ambient temperature 20 °C Installation altitude above sea

handled **Operating conditions (performance)**

Flow rate	8.5 m³/h	Maximum power input at duty	0.3846 kW
Minimum permissible flow rate	2.345 m³/h	point	
Head	9 m	max power @ rated impeller	0.5786 kW
Shut-off head	9.233 m	Pump speed	1,500 1/min
Efficiency Pump	54.1 %	Discharge pressure-max.	0.9037 bar

NPSH required

Kinematic viscosity Fluid

Design data pump				
Scope of supply Pump	Pump	Mains voltage	400 V	
supplied by KSB		Mains frequency	50 Hz	
Pump standard	EN 733	Minimum efficiency index MEI	0.5	
Shaft axis position	Horizontal	Minimum permissible fluid	0 °C	
Pump design	Close-coupled	temperature		
Pump system design	Single-pump system	Maximum permissible fluid	60 °C	
Specification of wetted parts	Silicone-free	temperature		
Pump direction of rotation,	Counterclockwise	Quantity Stages, single-entry	1	
viewed from casing side		Casing wear ring design	Flat	
Impeller diameter D2	164 mm	suction-side		
Impeller	Closed rad multi-channel imp	Casing wear ring design	Flat	
Free passage	5.8 mm	discharge-side		
Nut lock for diesel engine No		Installation chamber Casing	Conical (A-type cover)	

Nut lock for diesel engine	No	cover	Conica
Swirl break	No	Bearing bracket size / shaft unit	25

end Pump bearing type, drive end Anti-friction bearing Directive Pump/Valve CE

Pump bearing type, non-drive Anti-friction bearing



Page: 2 / 3

DN 32

Discharge

ETB 050-032-160-GGSBV10WS2AP4HHB

Nozzle connections pump					
Nominal diameter Suction	DN 50	Nominal diameter			

nozzle nozzle Nominal pressure Suction PN 16 Nominal pressure Discharge PN 16 nozzle nozzle

Suction nozzle position Axial Discharge nozzle position 0 deg Connection standard Inlet EN1092-2 Connection standard Outlet EN1092-2 Suction flange bolt hole EN1092-2 Discharge flange bolt hole EN1092-2 pattern as per standard pattern as per standard

Auxiliary connections pump

and drain

Materials

Material support foot

6B Fluid Drain G 1/4 1M Pressure gauge Without Without Drilled and plugged Discharge nozzle

Without 6D Fluid Filling and venting 1M Pressure gauge Suction G 1/4

Without Drilled and plugged nozzle Connection type 24E Quench Without

liquid inlet Without Connection type 5B Venting G 1/4

Drilled and plugged Shaft sealing

Shaft seal type SMS A-type cover, vented Shaft seal code Code 10 Shaft seal manufacturer KSB's choice Determined pressure Seal 0.38 bar

chamber inboard Mechanical seal type inboard

Material Shaft seal inboard Q1Q1X4GG

Material Volute casing (102) EN-GJL-250/A48 CL 35B Material Bolts/Screws 8.8 Hydraulic casing (902.01)

Material Casing cover (161) EN-GJL-250/A48 CL 35B Material Screw plug Hydraulic Material Shaft C45+N casing (903.01)

EN-GJL-250/A48 CL 35B Material Impeller (230) Material Static seal Screw A4/AISI 316 Material Casing wear ring JL/LAMELLAR GRAPHITE plug Volute casing suction-side (502.01)

CAST IRON Material Nut Impeller (ST) Material Casing wear ring JL/LAMELLAR GRAPHITE fastening (920.95) discharge-side (502.02) CAST IRON Material Key C45+C/A311 GR 1045

Material Shaft protecting (CRNIMO ST INT) CLASS A sleeve (523)

Material Bearing bracket WITHOUT Material Static seal Discharge DPAF DW001

cover Material drive lantern EN-GJL-250/A48 CL 35B

(ST)



Page: 3 / 3

ETB 050-032-160-GGSBV10WS2AP4HHB

П		^	
ப	·v	œ	ı

D11101			
Electric motor	Yes	Rated speed Motor	1,500 1/min
Drive concept	With electric actuator	Number of motor poles	4
Drive standard, mechanical	IEC	Rated power Motor	0.55 kW
Drive standard electric	IEC	Motor power reserve	43 %
Motor bearing, insulated	No	determined	
Motor manufacturer	KSB	Rated voltage Motor	400 V
Customer supply Drive	No	Motor winding	-/400 V
Motor construction type	IM V1 (IM3011) IEC 60034-7	Rated frequency Motor	50Hz
Motor size	80M	Motor starting method	Star
Efficiency class	IE5 (Ultra Premium)	Rated current Motor	1.3 A
Material motor housing	AL	Motor cos phi at nominal	0.79
Enclosure Motor	IP55 (TEFC)	speed	
Thermal class	155 (F) nach IEC 60085	Efficiency Motor	88.3 %
Temperature sensor motor	3 PTC thermistors	Directive Drive	CE
Terminal box position of motor (looking at the motor shaft)	360 Grad		
Operation on a frequency inverter permitted	Required by design		
Sound pressure level Motor	60 dBa		
Type series Motor manufacturer	SuPremE D2		

Installation parts / Accessories

Baseplate

Material Installation part Pump (S185)

Coating Aggregate

Surface preparation
Properties Primer coat
Thickness Primer coat
Properties Top coat
Thickness Top coat
Colour Top coat

Packaging
Suitable for transport
Tr

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

Free from dirt, grease, rust Hydro dip primer, water-dilutable

60 µm

Acrylate dispersion water-thin

40 µm

RAL5002 Ultramarine Blue

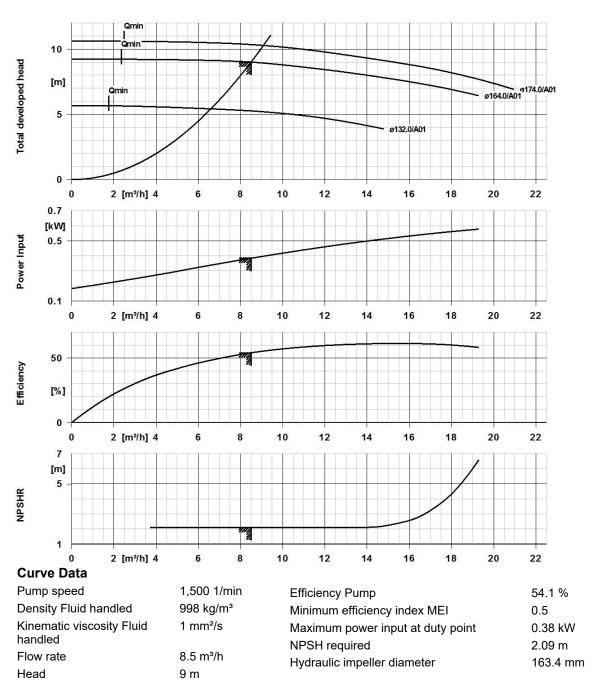
Nameplates

Duplicate name plate No Material Installation part Pump (S185)



Page: 1 / 1

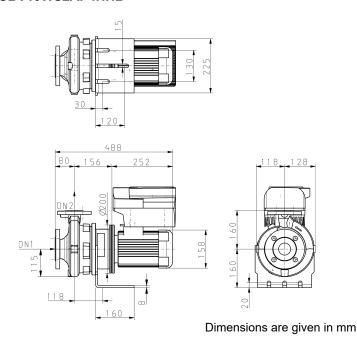
ETB 050-032-160-GGSBV10WS2AP4HHB





Page: 1 / 1

ETB 050-032-160-GGSBV10WS2AP4HHB



Drawing is not to scale.

Motor

KSB Motor manufacturer Motor size 80M Rated power Motor 0.55 kW Number of motor poles Rated speed Motor 1,500 1/min Terminal box position of motor 360 Grad (looking at the motor shaft)

Connections

Nominal diameter Suction nozzle	DN 50
Suction flange bolt hole pattern as	EN1092-2
per standard	
Nominal diameter Discharge nozzle	DN 32
Discharge flange bolt hole pattern	EN1092-2
as per standard	
Nominal pressure Suction nozzle	PN 16
Nominal pressure Discharge nozzle	PN 16
Net weight	
Total weight Pump	30 kg
Total weight Drive	10 kg
Total weight Pump set	40 ka

Connect pipelines stress-free

Plan for additional connections see extra drawing

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



Page: 1 / 2

ETB 050-032-160-GGSBV10WS2AP4HHB

Etabloc (ETB) low-pressure centrifugal pump, standardised pump made by KSB

Horizontal single-stage volute casing pump in close-coupled design, with ratings to EN 733. Axial suction nozzle, discharge nozzle pointing radially upwards. Shaft fitted with a replaceable shaft sleeve in the shaft seal area. Volute casing and casing cover with replaceable casing wear rings. Volute casing with integrally cast pump feet for variants B, C and S.

Compliant with ErP Directive 2009/125/EC. Meets the ecodesign requirements established in 2015 for water pumps with a maximum shaft power of 150 kW as per EU regulation 547/2012; the MEI values (min. >= 0.4) are documented on the name plate and in the data sheet.

1.500 1/min

Component type series KSB Etabloc [B]

Fluid Eau Maximum specified fluid temperature 20°C 60 °C Maximum permissible fluid temperature Density Fluid handled 998 kg/m3 Kinematic viscosity Fluid handled 1 mm²/s Flow rate 8.5 m³/h Head 9 m Maximum power input at duty point 0.38 kW NPSH required 2.09 m Nominal pressure Discharge nozzle PN 16 PN 16 Nominal pressure Suction nozzle Nominal diameter Suction nozzle **DN 50** Nominal diameter Discharge nozzle **DN 32** 80M Motor size 50Hz Rated frequency Motor 400 V Rated voltage Motor Motor power P1 0.435 kW 0.55 kW Rated power Motor Rated current Motor 1.3 A

Number of motor poles 4

Pump speed

Temperature sensor motor 3 PTC thermistors
Thermal class 155 (F) nach IEC 60085

Enclosure Motor IP55 (TEFC)

Motor starting method Star

Mains type Motor AC – three-phase

Motor winding - / 400 V

Efficiency class IE5 (Ultra Premium)

Motor canopy No
Temperature class Drive Without
Motor manufacturer KSB

Baseplate type Without , Without



Page: 2 / 2

ETB 050-032-160-GGSBV10WS2AP4HHB

Coupling type Without , Without Coupling guard type Without , Without , Without ,

Properties Top coat Hydro dip primer, water-dilutable Colour Top coat RAL5002 Ultramarine Blue

Total film thickness approx. 100 μm
Design concept GG

Material Volute casing EN-GJL-250/A48 CL 35B Material Casing cover EN-GJL-250/A48 CL 35B

Material Shaft C45+N
Material Impeller EN-GJL-250/A48 CL 35B

Material Bearing bracket WITHOUT

Material Casing wear ring suction-side

JL/LAMELLAR GRAPHITE CAST IRON

Material Casing wear ring discharge-side

JL/LAMELLAR GRAPHITE CAST IRON

Material Shaft protecting sleeve (CRNIMO ST INT)

Material Bolts/Screws Hydraulic casing 8.8

Material Nut Impeller fastening (ST)

Shaft/Stem seal Inboard SM seal

Shaft seal manufacturer inboard KSB's choice

Mechanical seal type inboard 1

Material Shaft seal inboard Q1Q1X4GG
Shaft seal type SMS A-type

Shaft seal type SMS A-type cover, vented Installation chamber Casing cover Conical (A-type cover)

Operation on a frequency inverter permitted Required by design

Operation on a frequency inverter permitted Requirements Installation code 2Y

Total weight Pump 30 kg

Total weight Pump set 40 kg

Product description KSB Etabloc [B], 050-032-160, ETB 050-032-160-

GGSBV10, WS2AP4HHB

Accessories