

ABB Motors and Mechanical Inc. DATA TRANSMITTAL AND CERTIFICATION

Sales Order Number		Customer Number		Customer Order Number		P.O. Date					
1210347902-30		940002		BMX-SULZER		11/16/2022					
Sold To: ABB Mexico S.A. de C.V. Avenida Central 310 San Luis Potosi, SLP 78395 Mexico				DATA PROVIDED WITH THIS TRANSMITTAL AND CERTIFICATIONS IS: ☒ PRELIMINARY, DATA FOR CUSTOMER APPROVAL: The associated documents requested on this order are submitted for approval. Please reply promptly or the order could be delayed. ☐ FINAL, APPROVED FOR CONSTRUCTION OR INSTALLATION.							
Ship To: ABB MX - DM SLP Avenida Central 310 San Luis Potosi, SLP 78395 Mexico				Data Source: ISSUED BY: Ellen Gonzalez Baldor-Reliance Ozark 11/16/2022							
Application			Quantity		Frame		Motor / Gen. D.S.:				
Centrifugal Pump			2.000		254T						
Elec Type		Phs		Hertz		Voltage		Electrical Design			
15 HP		3		60		460					
RPM			Enclosure		Time		Temp		Leads Location		
3600			TEFC		CONT		40				
Rotation		DC Field Excitation		Pwr Cd		Winding Type		Mounting Base		Motor Part #	
Bi-directional								F-1			
Insulation		Mtg		Drive		Bearing		S F		Line Voltage	
F		F-1				Ball / Ball		1.15		PH/HZ/V	
Type		Torque		Enclosure		Insulation		Phs		FL Amps	

Additional Specifications:

BASIC CONFIGURATION

Partial Motor Design No
 Frame Band 309
 Customer Application Centrifugal Pump
 Industry Spec IEEE-841
 Division Div. 2
 Hazardous Location Group Code D
 Hazardous Location Group Code C
 Hazardous Location Group Code B
 Hazardous Location Group Code A
 Temp Code T3C

ELECTRICAL

Ambient Minimum -25C
 Winding Type Random
 Starting Method Standard Start

MOUNTING

Mounting Position F-1
 Frame Mounting Foot (Dual Mounting Hole)

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Foot Planarity	Standard (0.005 IN/FT)		
Drive Method	Coupled		
Mounting Orientation	Horizontal		
Dowel Provisions	Yes		
Dowel Provisions Qty	4		
Vertical Jacking Provisions	Yes		
Shaft - Special Material	No		
Shaft Extension	T		
BEARINGS			
Drive End Seal	Inpro		
Opposite Drive End Seal	Inpro		
Lube Type	Grease		
Grease Type	Exxon Polyrex EM		
Grease Fittings Rqd	Yes		
Grease Fitting Type	Alemite 1610 or equal		
Grease Relief Fittings Rqd	Yes		
Relief Fitting Type	Alemite		
MECHANICAL			
Balance	Ultra-Standard (0.08 in/sec)		
Rotation Facing ODE	Bi-directional		
Stainless Steel Hardware	Yes		
Stainless Steel Hardware Type	300 Series Stainless		
Fan Material	Standard		
Ingress Protection	IP56		
Paint System	Prime Only no Finish Paint		
Frame Grounding Required	Yes		
Ground Pad Type	Drilled & Tapped Hole in Frame		
Ground Pad Location	Frame - same side as main CB		
Auto Drain Type	"T" Drain - Stainless Steel		
CONDUIT BOX			
Main Conduit Box	Required		
Main Conduit Box Location	Standard (side)		
Main Conduit Box Material	Cast Iron		
Main Conduit Box Size	Standard Oversize		
Terminal Panel	No		
Lead Entry Location	Toward Feet - Down		
Lugs	Yes		
Grounding	Yes		
Bus Bars / Standoffs	No		
Terminal Blocks - Main Leads	Yes		
NAMEPLATE / LABELS			
Nameplate Language	English		
Nameplate Material	Stainless Steel		
Customer Part Number Marks	Yes		

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Customer Part Number	MACCUSTOMMOTOR
Unit Nameplate Markings	Yes
Unit Nameplate Markings 1	18-P-1823 AM
Unit Nameplate Markings 2	18-P-1823 BM
Additional Haz Loc Marks	Yes
Additional Haz Loc Text	CL I, ZONE 2, GP IIC IIB IIA,
Grease Type Nameplate Marking	Yes
Grease Markings	EXXON POLYREX EM
Additional heater Markings	No
Special Nameplate Rqd	Yes
Direction Arrow Nameplate Rqd	Yes
Label CSA	Yes
Label UR	Yes
Efficiency Marking	DOE CC Mark Required
PACKAGING	
Packaging Type	Open/Hog Crate
TESTING	
IEEE841 Factory Test	Non-witnessed
DOCUMENTATION	
Document Unit of Measure	US
Certified Dimension Sheet	Yes
Performance Data/Curves	Yes
Standard Connection Diagram	Yes
Motor Instruction Manual	Yes
Renewal Parts List	Yes
Nameplate Data	Yes
Custom Document Requirement	"2D CAD drawings DWG format"
	***** VERY IMPORTANT, DO NOT OMIT *****
	Motor Foot Dimensions: Length, thick & width shall be reflected in the drawing per foot.

	Grounding lugs need to be indicated in motor drawing main terminal box and base plate.
	Main, tag's, direction of rotation and Auxiliary plates, shall be made in stainless steel.
	Tag need to be in special separated plate for this purpose.
	Labels are not allow
	Indicate in Motor drawing terminal box routable in steps of 90° when applicable.
Documentation Format	PDF
COMMERCIAL COMMENTS	
Estimated Lead Time	Estimated Lead Time is based on plant loading at the time of quotation and is intended to be used as a guide for our customers. This estimation includes the Engineering and Manufacturing time only. It DOES NOT

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include shipping time. Please contact your ABB Motors and Mechanical
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AC Induction Motor Performance Data
Record # 18022

Winding: 09WGY948-R001				Type: 0934M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		15		Full Load Torque		22.4 LB-FT	
Volts		460		Start Configuration		direct on line	
Full Load Amps		17.3		Breakdown Torque		87.8 LB-FT	
R.P.M.		3522		Pull-up Torque		26 LB-FT	
Hz		60 Phase		Locked-rotor Torque		32.7 LB-FT	
NEMA Design Code		B KVA Code		Starting Current		114 A	
Service Factor (S.F.)		1.15		No-load Current		5.1 A	
NEMA Nom. Eff.		91.2 Power Factor		Line-line Res. @ 25°C		0.622 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		54°C	
S.F. Amps				Temp. Rise @ S.F. Load		67°C	
				Locked-rotor Power Factor		28.4	
				Rotor inertia		0.868 lb-ft²	

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	61	80	88	89	90	90	92
Efficiency	87.5	91.1	91.8	91.2	90.2	88.7	91.3
Speed	3581	3563	3544	3522	3499	3472	3514
Line amperes	6.66	9.71	13.1	17.3	21.7	26.5	19.3

Performance Graph at 460V, 60Hz, 15.0HP

