		Data sheet				
	arat Bijlee Ltd.		Customer			
	hase Induction Motor		BBL Enquiry reference No			
Quantity	CUSTOM		Customer P.O.Number			
Application	CUSTOMI	ER TO FURNISH	W.O. No. / SAP No.	0.2	1	00
ag no.			Output kW / pole	9.3	/	8P
BL type tef.		2J18L833	Frame size Applicable standards (latest edition)		MJ180	
			Applicable standards (latest eatlion)			
Area classification (S	,		Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Mot	tors: IS/IEC 6	50079-1
ocation: indoor/out	loor/deck	Indoor	Dimensions: IS 1231/IS 2223/IS:8223			
Altitude (meters)		1000 or less	Vibrations: IS 12075			
			Noise level: IS 12065			
Hazardous area deta			Supply conditions and permissible variations (grid	l supply	,	
	AS (Zone 1/Zone 2)	ZONE I	Number of phases		Three	
Bas group		IIA, IIB	Voltage (Volts) and permisible variation	415		0%
Temp.class		T5	Frequency (Hz) and permissible variation	50	±5	5%
'ype of Explosion pr 2/Type 'n')	otection (FLP/Type	Ex d	Combined variation (absolute sum)		±10%	
Approving authority	for hazardous area	If Coal Mine application then DGMS else PESO				
Electrical parameter						
Starting performanc	e					
Method of starting			Starting current (%FLC)		500	
Load speed (rpm)			Starting torque (%FLT)		170	
Aotor GD^2 (kgm ²)		0.705	Pull out torque (%FLT)		210	
Load $GD^2(kgm^2)$		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15	/	30
oad torque-speed cu	irve	Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2		2/3	
Starting time at rated	voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Performan	<u> </u>	DETAILS				
Efficiency class		IE2	Duty and designation	(Continuous	$(\mathbf{S}1)$
✔	rise by resistance (deg.C)		CDF/Equivalent starts per hour/FI		Continuous	(51)
Ambient temp./temp.	rise by resistance (deg.C)	TEFC (TOTALLY ENCLOSED	CD17Equivalent starts per noui/14			
Enclosure		FAN COOLED)	Insulation class / utilisation class on DOL		F/B	
Full load current (FL	C) amps.	19.5	Rotor type (Squirrel Cage/ Slip ring)		Squirrel Ca	ıge
Full load speed (rpm)		725	Rotor voltage/rotor current (RV/RA) (Volts/Amps)		Not applica	ble
Full load torque (FL7	T) kg-m	12.5	Stator/rotor time constant (min)		108/146	
Efficiency in % at FL	/0.75FL/0.5FL		Power factor at FL/0.75FL/0.5FL	0.77	0.74	0.64
Aechanical parame	ters					
Mounting		B8	Mounting dimensions	R	efer GA dra	wing
Shaft extention		Single cylindrical	Direction of rotation viewed from DE		Clockwis	e
Degree of protection		IP 55	Suitable for bidirectional rotation		Yes	
Aethod of cooling (7 ooled/TESC)	EFC/forced	TEFC (IC 411)	Paint type	Acid Alkali Proof		
Net weight of motor	(kgs.)	210	Paint shade	632 as per IS 5		
	×~~Ð~·/		Earthing provision (two terminals on stator body)		Yes	
		l			100	
Bearings			<i>Terminal box</i>			
	ible/Belt &		Terminal box			awing
Coupling (Direct/flex	ible/Belt &	Direct	Terminal box Terminal box location when viewed from DE	A	s per GA dra	0
Coupling (Direct/flex Pulley/Gearbox)					s per GA dra	C
Coupling (Direct/flex Pulley/Gearbox) Dimenssions of pulle	y (OD x width) mm		Terminal box location when viewed from DE	A	•	awing
Coupling (Direct/flex Pulley/Gearbox) Dimenssions of pulle Bearings (roller/ball/	y (OD x width) mm angular contact)	- Ball /Ball 6310 2Z C3 / 6310 2Z C3	Terminal box location when viewed from DE Direction of cable entry Cable size and type(Aluminium) Earthing provision (one terminal in TB)	A	s per GA dra	awing
Coupling (Direct/flex Pulley/Gearbox) Dimenssions of pulle Bearings (roller/ball/ Bearing size DE/ND	y (OD x width) mm angular contact)	- Ball /Ball 6310 2Z C3 / 6310 2Z C3	Terminal box location when viewed from DEDirection of cable entryCable size and type(Aluminium)	A	s per GA dra X 3C X 50 S	awing SQ MM
Coupling (Direct/flex Pulley/Gearbox) Dimenssions of pulle Bearings (roller/ball/s Bearing size DE/ND Sype of lubrication	y (OD x width) mm angular contact)	- Ball /Ball 6310 2Z C3 / 6310 2Z C3	Terminal box location when viewed from DEDirection of cable entryCable size and type(Aluminium)Earthing provision (one terminal in TB)No of phases/Winding connection/number of	A	s per GA dra X 3C X 50 S Yes	awing SQ MM
Coupling (Direct/flex Pulley/Gearbox) Dimenssions of pulle Bearings (roller/ball/s Bearing size DE/ND Cype of lubrication	y (OD x width) mm angular contact) E	- Ball /Ball 6310 2Z C3 / 6310 2Z C3	Terminal box location when viewed from DE Direction of cable entry Cable size and type(Aluminium) Earthing provision (one terminal in TB) No of phases/Winding connection/number of terminals	A	s per GA dra X 3C X 50 S Yes	awing SQ MN
Coupling (Direct/flex Pulley/Gearbox) Dimenssions of pulle Bearings (roller/ball/ Bearing size DE/ND Cype of lubrication Cype of lubrication Corres TDs - 3 numbers si	y (OD x width) mm angular contact) E mplex (w/o controller)	- Ball /Ball 6310 2Z C3 / 6310 2Z C3	Terminal box location when viewed from DEDirection of cable entryCable size and type(Aluminium)Earthing provision (one terminal in TB)No of phases/Winding connection/number of terminalsArrow plate for direction of rotation	A	s per GA dra X 3C X 50 S Yes	awing SQ MN
Coupling (Direct/flex Pulley/Gearbox) Dimenssions of pulle Bearings (roller/ball/s Bearing size DE/ND Fype of lubrication Accessories RTDs - 3 numbers si BTDs - 1 number per	y (OD x width) mm angular contact) E mplex (w/o controller) • bearing (w/o controller)	- Ball /Ball 6310 2Z C3 / 6310 2Z C3 LITHIUM SOAP BASE GREASE	Terminal box location when viewed from DEDirection of cable entryCable size and type(Aluminium)Earthing provision (one terminal in TB)No of phases/Winding connection/number of terminalsArrow plate for direction of rotation Double compression glands (main cable)Double compression glands (Space	A	s per GA dra X 3C X 50 S Yes	awing SQ MN
Coupling (Direct/flex Pulley/Gearbox) Dimenssions of pulle Bearings (roller/ball/s Bearing size DE/ND Garing size DE/ND Gype of lubrication Accessories RTDs - 3 numbers si BTDs - 1 number per Space heaters - single	y (OD x width) mm angular contact) E mplex (w/o controller) bearing (w/o controller) e phase 50z, 230V	- Ball /Ball 6310 2Z C3 / 6310 2Z C3 LITHIUM SOAP BASE GREASE	Terminal box location when viewed from DEDirection of cable entryCable size and type(Aluminium)Earthing provision (one terminal in TB)No of phases/Winding connection/number of terminalsArrow plate for direction of rotation Double compression glands (main cable)Double compression glands (Space heater/thermisters/RTDs)	A	s per GA dra X 3C X 50 S Yes	awing SQ MM
Coupling (Direct/flex Pulley/Gearbox) Dimenssions of pulle Bearings (roller/ball/ Bearing size DE/ND Gype of lubrication Accessories RTDs - 3 numbers si BTDs - 1 number per Space heaters - single Chermisters - PTC , 1	y (OD x width) mm angular contact) E mplex (w/o controller) bearing (w/o controller) e phase 50z, 230V number per phase	- Ball /Ball 6310 2Z C3 / 6310 2Z C3 LITHIUM SOAP BASE GREASE	Terminal box location when viewed from DEDirection of cable entryCable size and type(Aluminium)Earthing provision (one terminal in TB)No of phases/Winding connection/number of terminalsArrow plate for direction of rotation Double compression glands (main cable)Double compression glands (Space	A	s per GA dra X 3C X 50 S Yes	awing SQ MM
	y (OD x width) mm angular contact) E mplex (w/o controller) bearing (w/o controller) e phase 50z, 230V number per phase	- Ball /Ball 6310 2Z C3 / 6310 2Z C3 LITHIUM SOAP BASE GREASE	Terminal box location when viewed from DEDirection of cable entryCable size and type(Aluminium)Earthing provision (one terminal in TB)No of phases/Winding connection/number of terminalsArrow plate for direction of rotation Double compression glands (main cable)Double compression glands (Space heater/thermisters/RTDs)	A	s per GA dra X 3C X 50 S Yes	awing SQ M

Notes:

1)All performance values are subject to IS/IEC 60034-1 tolerances, unless otherwise specified.

2)Performance values are at rated voltage and rated frequency condition and for DOL starting condition.

3)Motor GD^2 = Load GD^2 assumed wherever not mentioned.

4)Where starting time is more than 10 seconds, provision of heavy duty relays is mandatory.

5)Kilowatt rating is mandatory and HP is approximate.

6) Accessories provided are marked as "YES"

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Project:	Contractor/Client	Deter	
Consultant	Package	Date:	