PRODUCT INFORMATION PACKET

Model No: QCA0114A1121GAA001 Catalog No: QCA0114A1121GAA001 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 180L Frame, TEFC



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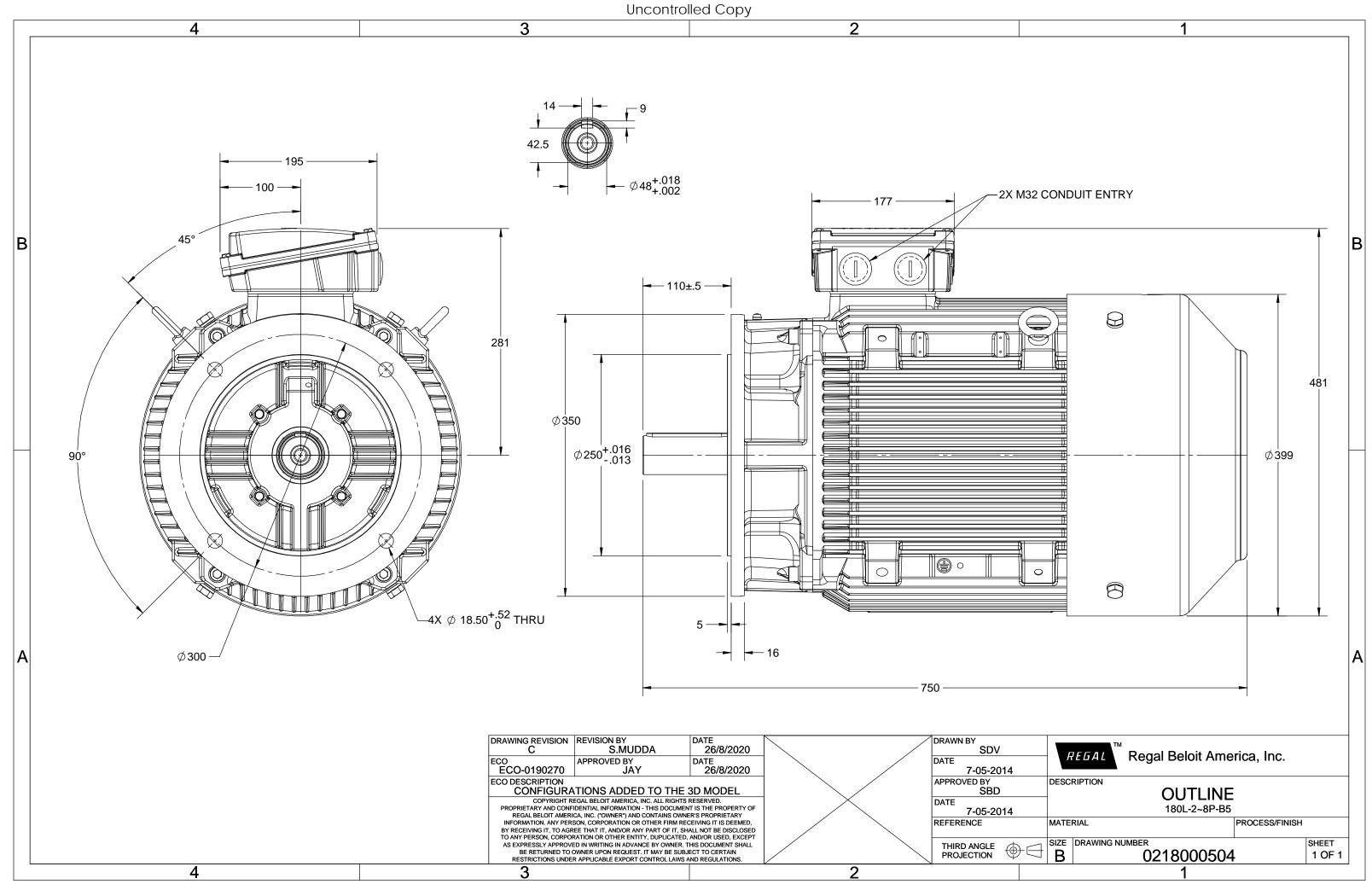
Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	50 Hz	Voltage	400 V
Current	24.8 A	Speed	732 rpm
Service Factor	1	Phase	3
Efficiency	90.4 %	Power Factor	0.71
Duty	S1	Insulation Class	F
Frame	180L	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	180L No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6311	Ambient Temperature Opp Drive End Bearing Size	40 °C 6211

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	750 mm	Frame Length	366 mm
Shaft Diameter	48 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0218000504

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TerraMAX[®]

Clockwise form DE

RAL 5014

PTC 150°C

-

TOP

1R x 3C x 35mm²/2 X M32 x 1.5

NA

Model No. QCA0114A1121GAA001

U	Δ/Υ	f	Р	Р		n	т	IE		% FFF a	at loa	Ч	DE	at lo	bed	I _A /I _N	T _A /T _N	$T_{\rm K}/T_{\rm N}$
-		, []]=1	-		۱ ۲۸۱													
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL		1/2FL	[pu]	[pu]	[pu]
400	Δ	50	11	15	24.8	732	146.18	IE4	-	90.4	90.4	89.1	0.71	0.64	0.5	7	2.0	3.3
Motor	type				QCA				Deg	ree of I	protectio	on				IP 55		
Enclosu					TEFC			Mounting type						IM B5				
Frame	Materia	l			Cast Iro	on		Cooling method						IC 411				
Frame	size				180L			Motor weight - approx.					238		kg			
Duty					S1				Gro	ss weig	ht - app	rox.				258		kg
Voltage	e variatio	on *			± 10%	5			Mo	tor iner	tia					0.3337		kgm ²
Freque	ncy varia	ation *			± 5%				Loa	d inerti	а				Customer to Provide			
Combir	ned varia	ation *			10%				Vib	ration le	evel					2.2		mm/s
Design					N				Noi	se level	(1mete	er distand	ce from	motor)		60		dB(A)
Service	factor				1.0				No. of starts hot/cold/Equally spread					2/3/4				
Insulati	on class				F				Starting method					DOL				
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	e of cou	upling					Direct		
Tempe	rature ri	se (by r	esistanc	e)	80 [Class	5 B]		К				(hot/cold	d)			15/30		s
Altitude	e above	sea leve	el		1000			meter	Dire	ection o	of rotatio	n			В	i-directiona	I	

Standard rotation

Accessory - 1

Accessory - 2

Accessory - 3

Maximum cable size/conduit size

Terminal box position

Auxiliary terminal box

Paint shade

Accessories

 I_A/I_N - Locked Rotor Current / Rated Current T_A/T_N - Locked Rotor Torque / Rated Torque

Hazardous area classification

Gas group

Rotor type

Bearing type

DE / NDE bearing

Type of grease

Lubrication method

Zone classification

Temperature class

 T_K/T_N - Breakdown Torque / Rated Torque

NOTE

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

NA

NA

NA

NA

Aluminum Die cast

Anti-friction ball

6311-2Z / 6211-2Z

Greased for life

NA

* Voltage, Frequency and combined variation are as per IEC60034-1

Technical da	ta are subject to chang	e. There may be slight v	variations between calculate	d values in this datasheet	and the motor name	plate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC 60034-30-1	-	-	AS/NZ 1359:5:2004	-	IEC 60034-30-1

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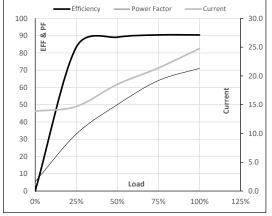
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15	24.8	732	14.91	146.18	IE4	40	S1	1000	0.3337	238

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	13.9	14.7	18.5	21.4	24.8	
Torque	Nm	0.0	35.9	72.2	108.9	146.2	
Speed	r/min	750	746	741	737	732	
Efficiency	%	0.0	83.3	89.1	90.4	90.4	
Power Factor	%	5.4	33.0	50.0	64.0	71.0	

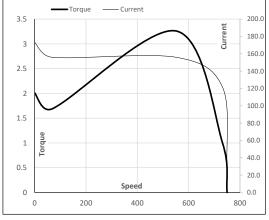
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	68	551	732	750	
Current	А	173.3	155.9	121.5	24.8	13.9	
Torque	pu	2.0	1.7	3.3	1	0	





NOTE Refer data sheet for applicable standard and tolerances on performance parameters

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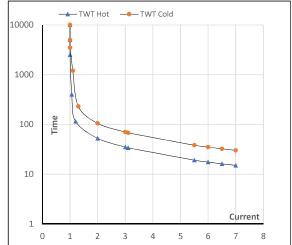
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Enclosure	U	Δ / Y	f	Р	Р	Т	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	11	15	24.8	732	14.91	146.18	IE4	40	S1	1000	0.3337	238

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	53	35	30	25	19	15
TWT Cold	s	10000	105	70	60	45	38	30
Current	pu	1	2	3	4	5	5.5	7

Thermal Characteristics Chart



NOTE Refer data sheet for applicable standard and tolerances on performance parameters

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