PRODUCT INFORMATION PACKET



Model No: QCA0224AF141GAA001 Catalog No: QCA0224AF141GAA001

TerraMAX® Cast Iron Motor, 30 HP, 3 Ph, 50 Hz, 380 V, 750 RPM, 225M Frame, TEFC





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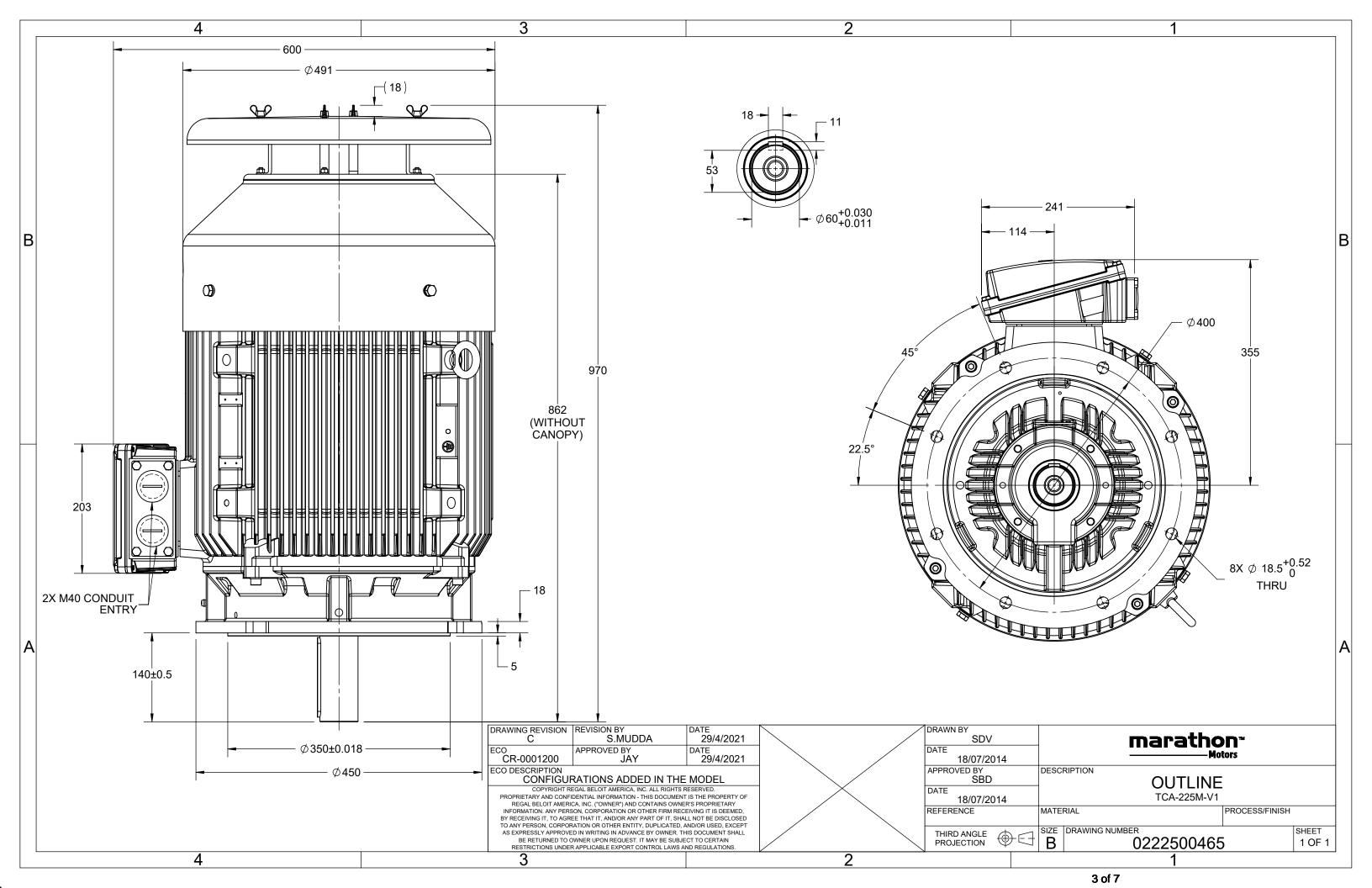
Nameplate Specifications

osed Fan Cooled

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	8	Rotation	Bi-Directional	
Mounting	V1	Motor Orientation	Shaftdown	
Drive End Bearing	C3	Opp Drive End Bearing	СЗ	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	968 mm	Frame Length	425 mm	
Shaft Diameter	60 mm	Shaft Extension	140 mm	
Assembly/Box Mounting	Тор			
Outline Drawing	0222500465	Connection Drawing	8442000085	

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DRAWING REVISION	REVISION BY	DATE
Α	SN	13/01/2017
ECO	APPROVED BY	DATE
ECO-0116390	SBD	13/01/2017
ECO DESCRIPTION		

NEW DRAWING RELEASE

GEOMENTRIC TOLERANCE								
	>0~6	±0.1						
LINEAR DIM	>6~30	±0.2						
	>30~120	±0.3						



NOTES:

- 1.
- 2.
- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE 3. BY THE TABLE.

8WD.442.2017







Model No. QCA0224AF141GAA001

U	Δ/Υ	f	Р	Р	1	n	Т	IE	9	6 EFF a	t load	l	PF	at lo	ad	I_A/I_N	T_A/T_N	T_K/T_N
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
380	Δ	50	22	30	45.9	738	289.52	IE4	-	92.1	92.1	91	0.79	0.74	0.62	5.2	1.7	2.3

Motor type	QCA		Degree of
Enclosure	TEFC		Mounting
Frame Material	Cast Iron		Cooling me
Frame size	225M		Motor wei
Duty	S1		Gross weig
Voltage variation *	± 10%		Motor iner
Frequency variation *	± 5%		Load inerti
Combined variation *	10%		Vibration I
Design	N		Noise level
Service factor	1.0		No. of star
Insulation class	F		Starting m
Ambient temperature	-20 to +40	°C	Type of co
Temperature rise (by resistance	ce) 80 [Class B]	K	LR withsta
Altitude above sea level	1000	meter	Direction o
Hazardous area classification	NA		Standard r
Zone classification	NA		Paint shad
Gas group	NA		Accessorie
Temperature class	NA		Acc
Rotor type	Aluminum Die cast		Acc
Bearing type	Anti-friction ball		Acc
DE / NDE bearing	6313 C3 / 6213 C3		Terminal b
Lubrication method	Regreasable		Maximum
Type of grease	CHEVRON SRI-2 or Equivalent		Auxiliary to

Degree of protection	IP 55	
Mounting type	IM V1	
Cooling method	IC 411	
Motor weight - approx.	422	kg
Gross weight - approx.	452	kg
Motor inertia	1.0453	kgm²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from mo	tor) 61	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	15/30	S
Direction of rotation	Bi-directional	
Standard rotation	Clockwise form DE	
Paint shade	RAL 5014	
Accessories		
Accessory - 1	PTC 150°C	
Accessory - 2	-	
Accessory - 3	-	
Terminal box position	TOP	
Maximum cable size/conduit size	1R x 3C x 50mm²/2 x M40 x 1.5	
Auxiliary terminal box	NA	

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

 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 $\,$

Technical data are subject to change. There may be discrepancies between calculated and name plate values.

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30

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^{*} Voltage, Frequency and combine variation are as per IEC60034-1

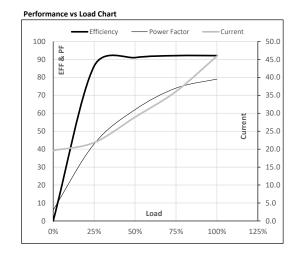




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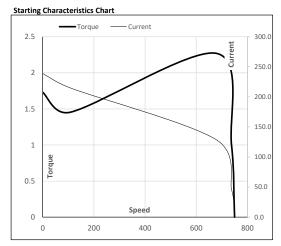
Enclosure	U	Δ/Υ	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	22	30	45.9	738	29.52	289.52	IE4	40	S1	1000	1.0453	422

Motor Load Data 3/4FL 5/4FL 1/4FL 1/2FL FL Load Point NL Current 19.6 21.8 28.9 36.1 Torque Nm 0.0 71.5 143.6 216.2 289.5 Speed r/min 750 747 744 741 738 Efficiency % 0.0 86.2 91.0 92.1 92.1 62.0 74.0 Power Factor 6.1 42.9 79.0



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	107	679	738	750	
Current	Α	238.9	215.0	128.7	45.9	19.6	
Torque	pu	1.7	1.5	2.3	1	0	



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

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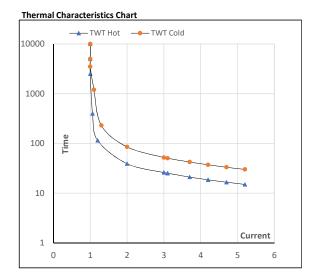




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Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	380	Υ	50	22	30	45.9	738	29.52	289.52	IE4	40	S1	1000	1.0453	422

Motor Speed	Motor Speed Torque Data												
Load		FL	I_1	l ₂	l ₃	I ₄	I ₅	LR					
TWT Hot	S	10000	39	26	20	17	16	15					
TWT Cold	S	10000	85	52	41	35	32	30					
Current	pu	1	2	3	4	4.5	5	5.2					



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

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