PRODUCT INFORMATION PACKET

Model No: SCA2004A4141GAA001
Catalog No: SCA2004A4141GAA001
TerraMAX® Cast Iron Motor, 270 HP, 3 Ph, 50 Hz, 380/660 V, 750 RPM, 355L Frame, TEFC

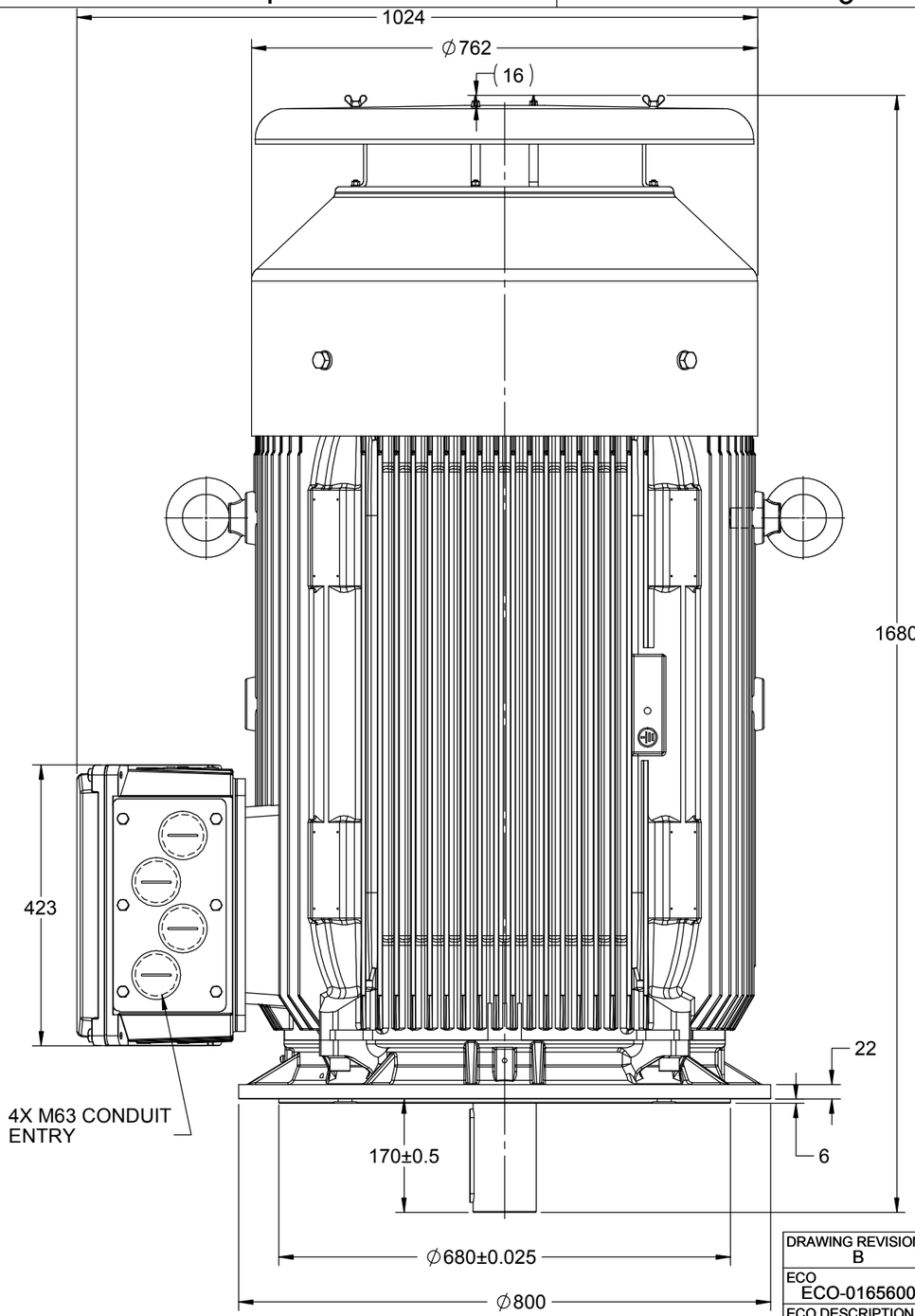
Nameplate Specifications

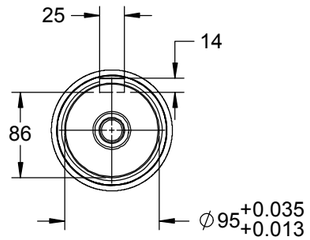
Output HP	270 Hp	Output KW	200.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	391.6 A	Speed	742 rpm
Service Factor	1	Phase	3
Efficiency	93.5 %	Power Factor	0.83
Duty	S1	Insulation Class	F
Frame	355L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6322	Opp Drive End Bearing Size	6322
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE2

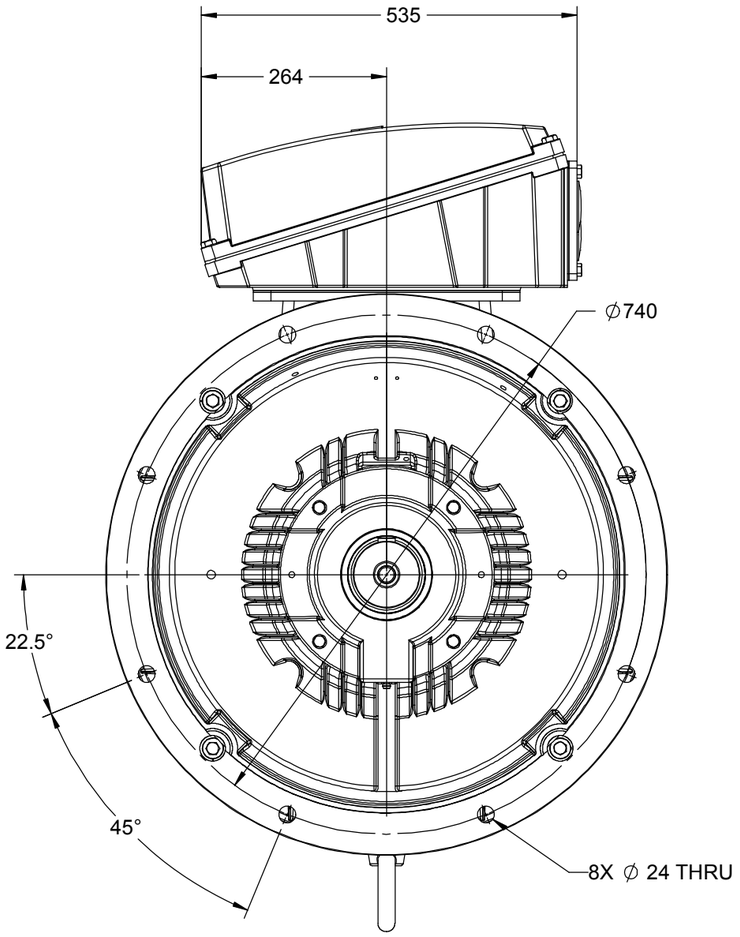
Technical Specifications

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	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1680 mm	Frame Length	1010 mm
Shaft Diameter	95 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Top		
Connection Drawing	8442000085	Outline Drawing	0235501832

OUTLINE







DRAWING REVISION	REVISION BY	DATE
B	NIV	09/05/2019
ECO	APPROVED BY	DATE
ECO-0165600	SR	09/05/2019

ECO DESCRIPTION: MODEL UPDATED

DRAWN BY	JOY
DATE	18/07/2014
APPROVED BY	SBD
DATE	18/07/2014
REFERENCE	

marathon™ Motors

DESCRIPTION: OUTLINE
355FR-4-8P-V1 MTG. MOTOR TYPE: TCA

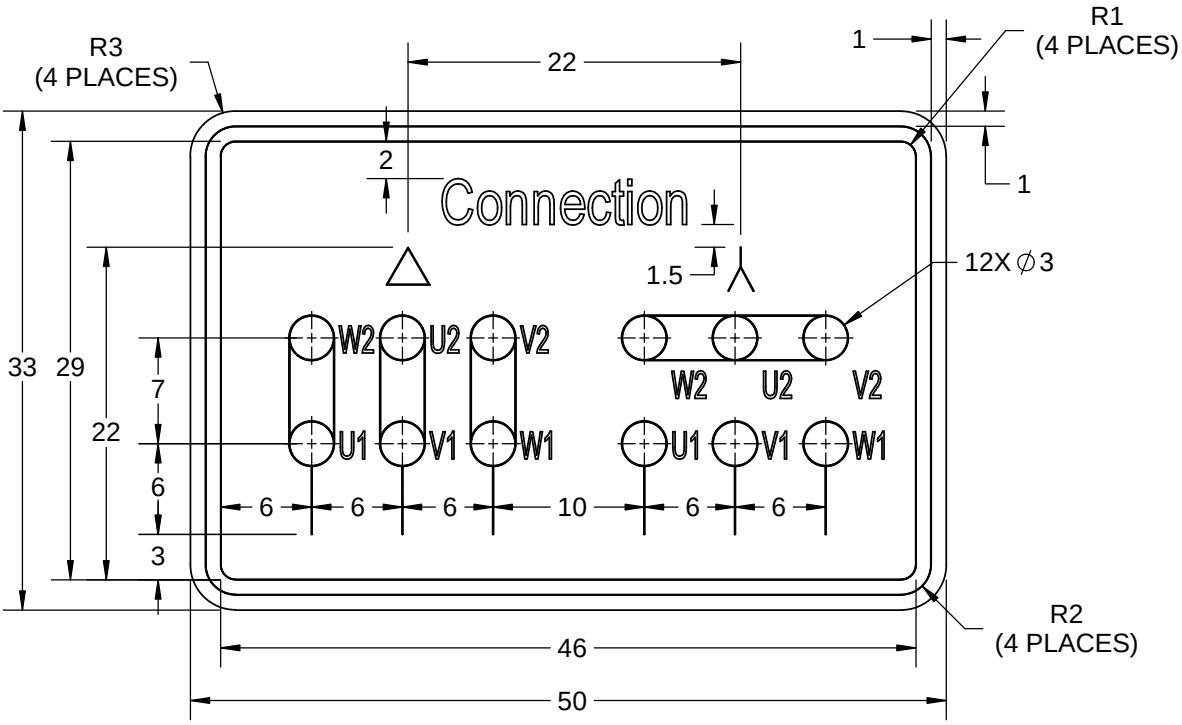
MATERIAL | PROCESS/FINISH

THIRD ANGLE PROJECTION

SIZE	DRAWING NUMBER	SHEET
B	0235501832	1 OF 1

DRAWING REVISION	REVISION BY	DATE
A	SN	13/01/2017
ECO	APPROVED BY	DATE
ECO-0116390	SBD	13/01/2017
ECO DESCRIPTION		
NEW DRAWING RELEASE		

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



NOTES:

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

8WD.442.2017

DRAWN BY: SN	REGAL™ Regal Beloit America, Inc.		
DATE: 16/12/2016			
APPROVED BY: SBD	DESCRIPTION: CONN DIAGRAM-NAMEPLATE		
DATE: 16/12/2016			
REFERENCE	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION	SIZE: A	DRAWING NUMBER: 8442000085	SHEET: 1 OF 1

marathon® Motors

TerraMAX®

Model No. SCA2004A4141GAA001

U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [Nm]	IE Class	% EFF at __ load 5/4FL	FL	3/4FL	1/2FL	PF at __ load FL	3/4FL	1/2FL	I_A/I_N [pu]	T_A/T_N [pu]	T_K/T_N [pu]
380/660	Δ	50	200	270	391.6	742	2590.8	IE2	-	93.5	93.5	95.1	0.83	0.8	0.72	6.3	1.7	2.5

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM V1	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	355L		Motor weight - approx.	2006	kg
Duty	S1		Gross weight - approx.	2051	kg
Voltage variation *	± 10%		Motor inertia	13.1902	kgm^2
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.8	mm/s
Design	N		Noise level (1meter distance from motor)	65	dB(A)
Service factor	1.0		No. of starts hot/cold/Equally spread	2/3/4	
Insulation class	F		Starting method	DOL	
Ambient temperature	-20 to +40	°C	Type of coupling	Direct	
Temperature rise (by resistance)	80 [Class B]	K	LR withstand time (hot/cold)	30/15	s
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional	
Hazardous area classification	NA		Standard rotation	Clockwise form DE	
Zone classification	NA		Paint shade	RAL 5014	
Gas group	NA		Accessories		
Temperature class	NA		Accessory - 1	-	
Rotor type	Aluminum Die cast		Accessory - 2	-	
Bearing type	Anti-friction ball		Accessory - 3	-	
DE / NDE bearing	6322 C3/ 6322 C3		Terminal box position	TOP	
Lubrication method	Re-grease-able		Maximum cable size/conduit size	1R x 3C x 300mm²/4 x M63 x 1.5	
Type of grease	CHEVRON SRI-2 or Equivalent		Auxiliary terminal box	Available on Request	

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

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

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

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

REGAL®