

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 91130-61  
Catalog No: 91130-61  
B-91130-61 TACH HS35R102481P7

Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies.  
©2025 Regal Rexnord Corporation, All Rights Reserved. MC017097E

The logo for Regal Rexnord, featuring a stylized green and blue icon to the left of the company name in a bold, sans-serif font.

## Nameplate Specifications

## Technical Specifications

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:04/05/2025

11-13-2000 30 NA - 1.0000/.9995 [25.4000/25.3873] 1 DBL. PIGTAIL 1

11-13-2000 29 NA 10 1.0000/.9995 [25.4000/25.3873] 1 DBL. PIGTAIL 1

11-13-2000 28 HS35R2048H7R7 - 1.0000/.9995 [25.4000/25.3873] 1 DBL. MS CONN 1

11-13-2000 27 HS35R1024H7R7 10 1.0000/.9995 [25.4000/25.3873] 1 DBL. MS CONN 1

11-13-2000 26 HS35R2048H6R7 - 1.0000/.9995 [25.4000/25.3873] 1 DBL. MS CONN 1

11-13-2000 25 HS35R102486R7 - .6250/.6245 [15.875/15.862] 1 DBL. MS CONN 1

11-13-2000 24 HS35R204886R7 - .6250/.6245 [15.875/15.862] 1 DBL. MS CONN 1

10-11-2000 23 USE -25

08-22-2000 22 HS35R012084P7 - .6250/.6245 [15.875/15.862] 1 MS CONN 1

21 HS35R030084P7 10 .6250/.6245 [15.875/15.862] 1 MS CONN 1

06-08-2000 20 HS35R001284P7 - .6250/.6245 [15.875/15.862] 1 MS CONN

02-21-2000 19 HS35R2500H4P7 - 1.0000/.9995 [25.4000/25.3873] 1 MS CONN 1

10-07-1999 18 HS35R1024H5N7 - 1.0000/.9995 [25.4000/25.3873] 2 MS CONN 1

02-12-1999 17 SEE DWG 93285 PG 2,-17 FOR PART NUMBER 15 1.0000/.9995 [25.4000/25.3873] 1 PIG TAIL 1

10-22-1998 16 HS35R0512H4P7 15 1.0000/.9995 [25.4000/25.3873] 1 MS CONN 1

05-15-1998 15 HS35R051284P7 - .6250/.6245 [15.875/15.862] 1 MS CONN 1

05-15-1998 14 HS35R0512H5P7 - 1.0000/.9995 [25.4000/25.3873] 2 MS CONN

05-15-1998 13 SEE DWG 93285 PG 2,-13 FOR PART NUMBER 15 1.0000/.9995 [25.4000/25.3873] 1 PIG TAIL 1

01-19-1998 12 HS35R2048H4P7 15 1.0000/.9995 [25.4000/25.3873] 1 MS CONN 1

11-05-1997 11 HS35R0250H2P7 - 1.0000/.9995 [25.4000/25.3873] 1 MS CONN 2

10-21-1997 10 HS35R204885P7 - .6250/.6245 [15.875/15.862] 2 MS CONN

10-24-2007 9 SEE DWG 93285 PG 2,-9 FOR PART NUMBER 15 1.0000/.9995 [25.4000/25.3873] 1 PIG TAIL 1

10-24-2007 8 HS35R2048H5P7 15 1.0000/.9995 [25.4000/25.3873] 2 MS CONN

10-24-2007 7 HS35R204884P7 15 .6250/.6245 [15.875/15.862] 1 MS CONN 1

01-23-1997 6 HS35R1024H2P7 15 1.0000/.9995 [25.4000/25.3873] 1 MS CONN 2

01-20-1997 5 HS35R1024H4P7 15 1.0000/.9995 [25.4000/25.3873] 1 MS CONN 1

10-24-2007 4 SEE DWG 93285 PG 2,-4 FOR PART NUMBER - 1.0000/.9995 [25.4000/25.3873] 1 PIG TAIL 1

3 HS35R102485P7 15 .6250/.6245 [15.875/15.862] 2 MS CONN

10-24-2007 2 HS35R102484P7 15 .6250/.6245 [15.875/15.862] 1 MS CONN 1

10-24-2007 1 HS35R1024H5P7 15 1.0000/.9995 [25.4000/25.3873] 2 MS CONN

DASH VENDOR PART NUMBER REV SHAFT SIZE FIG TERMINATION MOUNTING DASH

3 Uncontrolled Copy 2 1

TERMINATION DIMENSION

6 & 7 PIN	3.00 [76.20]
10 PIN	3.38 [85.85]
12 PIN	2.87 [72.90]
CABLE	3.00 [76.20]

TETHER POSITION CAN BE ROTATED IN 15° INCREMENTS

TETHER & COLLAR MUST GO ON THIS SIDE AND CAN NOT BE REVERSED

DOUBLE CONNECTOR OPTION

40°

A

1.25 [31.75]

Ø 3.80 [96.52]

Ø 2.25 [57.15]

Ø 1.95 [49.53]

.57 [14.48]

MOUNTING TABLE

DASH	MOUNTING	A	THREAD
1	4.50 [114.30] C'FACE	2.93 [74.42]	3/8
2	8.50 [215.90] C'FACE	3.625 [92.075]	1/2

FIG. 1

TETHER HARDWARE SUPPLIED BY DANAHER

NOTE: RECOMENDED SHAFT EXTENSION 1.25 [31.75] MIN.

91318 TACHOMETER COVER

IS SUPPLIED WITH TACHOMETER WHERE 10TH DIGIT = 4, 5, 6 OR 7 (EX: HS352048G54B7)

4 = 3/8" BOLTS FOR C'FACE MOUNTS & TENV UNMACHINED BRACKETS

5 = 10-24 SCREWS & T-BOLT FOR FAN GUARD MOUNTING

MOUNTING HARDWARE SUPPLIED BY DYNAPAR

\*\* 91318 TACHOMETER COVER IS NOT SUPPLIED WITH TACHOMETER WHEN 10TH DIGIT = 1 OR 2

COVER PLATE

COVER PLATE MTG. SCREWS (2)

NUT

STEEL WASHER

NYLON BUSHING

NYLON BUSHING

STEEL WASHER

T-BOLT

FAN GUARD

TETHER MTG. BRKT.

SPLIT RING SET SCR. COLLAR TACH TO SHAFT

FRONT MOTOR SHAFT EXT.

\* NOT SUITABLE FOR DIV. 2. USE HSD35, DRAWING B-92927, FOR DIVISION 2 REQUESTS.\*

DRAWING REVISION AU

ECO ECO-0150071

REVISION BY JP

APPROVED BY DJK

DATE 08-02-2018

DATE 08-02-2018

ECO DESCRIPTION

ADDED -82

COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.

TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±7° 30"
.XX	±0.02	[±0.51]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45°

CORNER FILLETS: R.02 [.51]

MACHINED SURFACES: 200 INCH 5.1 mm

mm SHOWN IN [BRACKETS]

DRAWN BY TJB

DATE 08-15-2000

APPROVED BY GK

DATE 08-15-2000

REFERENCE

THIRD ANGLE PROJECTION

REGAL Regal Beloit America, Inc.

DESCRIPTION

ENCODER

DYNAPAR CONTROLS HS35R

MATERIAL

PROCESS/FINISH

SIZE B

DRAWING NUMBER 91130

SHEET 1 OF 3

4

DASH	VENDOR PART NUMBER	REV	SHAFT SIZE	FIG	TERMINATION	MOUNTING DASH
60	HS35R0240H4P7	11	1.0000/.9995 [25.4000/25.3873]	1	MS CONN	1
59	NA SAME AS -29	-				
58	HS35R0100H515	10	1.0000/.9995 [25.4000/25.3873]	2	6 PIN MS. CONN	
57	HS35R0100H4P7	-	1.0000/.9995 [25.4000/25.3873]	2	MS CONN	
56	SEE DWG 93285 PG 2.-56 FOR PART NUMBER	-	1.0000/.9995 [25.4000/25.3873]	1	PIG TAIL	
55	NA	-	1.1250/1.1245 [28.575/28.5623]	1	PIG TAIL	2
54	HS35R100086R7	-	.6250/.6245 [15.875/15.862]	1	MS CONN	1
53	HS35R102475P7	9	.5000/.4995 [12.700/12.687]	1	MS CONN	1
52	HS35R006084P7	-	.6250/.6245 [15.875/15.862]	1	MS CONN	1
51	NA	9	1.1250/1.1245 [28.575/28.5623]	1	DBL. PIG TAIL	1
50	SEE DWG 93285 PG 2.-50 FOR PART NUMBER	-	1.0000/.9995 [25.4000/25.3873]	1	PIG TAIL	1
49	HS35R10249577	-	15mm (.5906)	1	MS CONN	
48	HS35R0360H4P7	9	1.0000/.9995 [25.4000/25.3873]	1	MS CONN	1
47	HS35R010084P7	-	.6250/.6245 [15.875/15.862]	1	MS CONN	
46	HS35R102484P2	9	.6250/.6245 [15.875/15.862]	1	MS CONNECTOR ONLY NO MATING CONNECTOR	1
45	NA	9	1.1250/1.1245 [28.575/28.5623]	1	PIG TAIL	2
44	HS35R1024J2P2	-	1.1250/1.1245 [28.575/28.5623]		MS CONNECTOR ONLY NO MATING CONNECTOR	2
43	HS35R1024H4P2	9	1.0000/.9995 [25.4000/25.3873]	1	MS CONNECTOR ONLY NO MATING CONNECTOR	1
42	HS35R204884P2	10	.6250/.6245 [15.875/15.862]	1	MS CONNECTOR ONLY NO MATING CONNECTOR	1
41	HS35R2048H4P2	10	1.0000/.9995 [25.4000/25.3873]	1	MS CONNECTOR ONLY NO MATING CONNECTOR	1
40	NA	10	1.1250/1.1245 [28.575/28.5623]	1	PIG TAIL	1
39	HS35R204884P7PS	-	.6250/.6245 [15.875/15.862]	1	MS CONN	1
38	HS35R102484P7	-	.6250/.6245 [15.875/15.862]	1	MS CONN	1
37	HS35R060084P7	-	.6250/.6245 [15.875/15.862]	1	MS CONN	1
36	HS35R150084P7	-	.6250/.6245 [15.875/15.862]	1	MS CONN	1
35	HS35R1500H5P7	-	.6250/.6245 [15.875/15.862]	2	MS CONN	1
34	BOGUS PART NO.	10	.6250/.6245 [15.875/15.862]	1	MS CONN	1
33	HS35R051284P7	-	.6250/.6245 [15.875/15.862]	1	MS CONN	1
32	HS35R250084P7	10	.6250/.6245 [15.875/15.862]	1	MS CONN	1
31	SEE DWG 93285 PG 2.-31 FOR PART NUMBER	-	.6250/.6245 [15.875/15.862]	1	PIG TAIL	1

3

Uncontrolled Copy

2

1

FIG. 1

NOTE: RECOMENDED SHAFT EXTENSION 1.25 [31.75] MIN.

\* NOT SUITABLE FOR DIV. 2. USE HSD35, DRAWING B-92927, FOR DIVISION 2 REQUESTS.\*

ENCODER  
DYNAPAR CONTROLS HS35R

91130

2 OF 3

Uncontrolled Copy

4				3		2		1		
DASH	VENDOR PART NUMBER	REV	SHAFT SIZE	FIG	TERMINATION	MOUNTING DASH				
08-02-2018	82	HS35R1024H14A	A	1.0000/.9995 [25.4000/25.3873]	1	PIG TAIL	1			
07-11-2018	81	HS35R1024H1RA	A	1.0000/.9995 [25.4000/25.3873]	1	PIG TAIL	1			
02-05-2018	80	HS35R10248482	A	.6250/.6245 [15.875/15.862]	1	10 PIN	1			
02-05-2018	79	HS35R10248182	A	.6250/.6245 [15.875/15.862]	1	10 PIN	1			
02-01-2018	78	HS35R1024H3PA	A	1.0000/.9995 [25.4000/25.3873]	1	PIG TAIL	1			
08-16-2017	77	HS35R500084P7	A	.6250/.6245 [15.875/15.862]	1	MS CONN	1			
04-03-2017	76	HS35R1024H3P7	A	1.0000/.9995 [25.4000/25.3873]	1	MS CONN	1			
02-03-2016	75	HS35R1024H15A	A	1.0000/.9995 [25.4000/25.3873]	1	PIG TAIL	1			
12-13-2016	74	HS35R1024H45A	A	1.0000/.9995 [25.4000/25.3873]	1	PIG TAIL	1			
04-28-2016	73	HS35R1024H572	A	1.0000/.9995 [25.4000/25.3873]	2	MS CONNECTOR ONLY NO MATING CONNECTOR	0			
03-15-2016	72	HS35R1024H1PA	A	1.0000/.9995 [25.4000/25.3873]	1	PIG TAIL	1			
01-12-2015	71	HS35R2500H7R7	0	1.0000/.9995 [25.4000/25.3873]	2	MS CONN	1			
01-20-2014	70	HS35R1024H147	0	1.0000/.9995 [25.4000/25.3873]	1	MS CONN	1			
01-24-2013	69	HS35R1024J4P7	0	1.1250/1.1245 [28.575/28.5623]	1	MS CONN	1			
08-27-2012	68	HS35R0600H4P7	0	1.0000/.9995 [25.4000/25.3873]	1	MS CONN	1			
05-08-2012	67	HS35R204885E7	0	.6250/.6245 [15.875/15.862]	2	MS CONN	0			
04-30-2012	66	HS35R2048H7R7	0	1.0000/.9995 [25.4000/25.3873]	2	MS CONN	1			
08-23-2011	65	HS35R0010H4P7	0	1.0000/.9995 [25.4000/25.3873]	1	MS CONN	1			
07-05-2011	64	HS35R409684P7	2	.6250/.6245 [15.875/15.862]	1	MS CONN	1			
02-08-2011	63	HS35R1024H4PE	2	1.0000/.9995 [25.4000/25.3873]	1	PIG TAIL	1			
10-27-2010	62	HS35R2500H7P7D2	0							
	61	HS35R102481P7	1	.6250/.6245 [15.875/15.862]	1	MS CONN	1			

**FIG. 1**

**TETHER HARDWARE SUPPLIED BY DANAHER**

**MOUNTING TABLE**

DASH	MOUNTING	A	THREAD
1	4.50 [114.30] C'FACE	2.93 [74.42]	3/8
2	8.50 [215.90] C'FACE	3.625 [92.075]	1/2

**NOTE: RECOMENDED SHAFT EXTENSION 1.25 [31.75] MIN.**

**FIG. 2**

**MOUNTING HARDWARE SUPPLIED BY DYNAPAR**

**91318 TACHOMETER COVER**  
IS SUPPLIED WITH TACHOMETER WHERE  
10TH DIGIT = 4, 5, 6 OR 7 (EX: HS352048G54B7)

4 = 3/8" BOLTS FOR C'FACE MOUNTS  
& TENV UNMACHINED BRACKETS

5 = 10-24 SCREWS & T-BOLT FOR FAN GUARD MOUNTING

**\*\* 91318 TACHOMETER COVER IS NOT SUPPLIED  
WITH TACHOMETER WHEN 10TH DIGIT = 1 OR 2**

**FIG. 3**

**TETHER POSITION CAN BE ROTATED  
IN 15° INCREMENTS**

**TERMINATION DIMENSION**

TERMINATION	DIMENSION
6 & 7 PIN	3.00 [76.20]
10 PIN	3.38 [85.85]
12 PIN	2.87 [72.90]
CABLE	3.00 [76.20]

**FIG. 4**

**COVER PLATE**  
**COVER PLATE MTG. SCREWS (2)**  
**NUT**  
**STEEL WASHER**  
**NYLON BUSHING**  
**NYLON BUSHING**  
**STEEL WASHER**  
**T-BOLT**  
**FAN GUARD**  
**TETHER MTG. BRKT.**  
**SPLIT RING SET SCR.  
COLLAR TACH TO SHAFT**  
**FRONT MOTOR  
SHAFT EXT.**

**\* NOT SUITABLE FOR DIV. 2. USE HSD35, DRAWING B-92927, FOR DIVISION 2 REQUESTS.\***