

ROBA-stop®-M CCV

Cold Climate safety brake GL-certified up to -40 °C

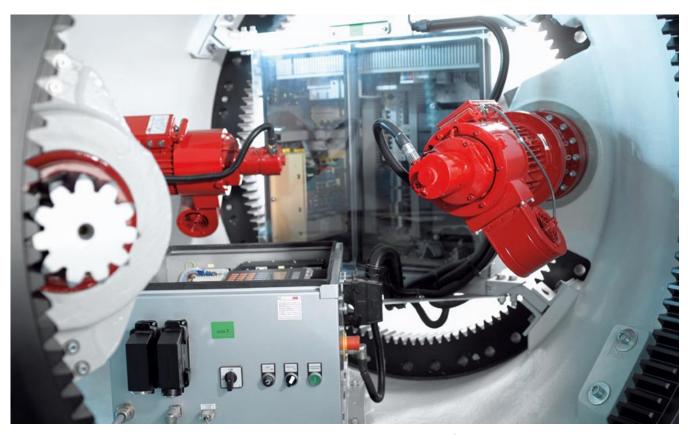








Cold Climate safety brakes for wind power plants



mayr®-wind power brakes in pitch drives

Operational safety around the clock

The profitability of wind power plants, above all when operating in difficult conditions such as offshore or cold climate, is determined firstly according to the wind conditions and then to a large extent according to the operational safety and the resulting downtime.

These can be minimised substantially through the selection of qualified drive components.

Achieve minimum downtime even at minus 40 °C through maximum failure safety with our Cold Climate version of the ROBA-stop®-M safety brakes for pitch and yaw drives!

For high operational safety, both good dimensioning and the use of high-quality, long-lived products are essential. These products should have been tested in detail under authentic worst case conditions and have already proven their worth multiple times in such applications.

The requirements placed upon a "CCV brake" have not been universally defined. Only certification through a public, recognised testing institute – such as Germanic Lloyd - provides you with the security that all relevant material and product characteristics have been tested and approved under real-life conditions.

Our high-quality, certified Cold Climate safety brakes and our years of experience in wind power, which we have gathered together with renowned drive manufacturers, play a major role in ensuring high system availability even under the most difficult climatic conditions.



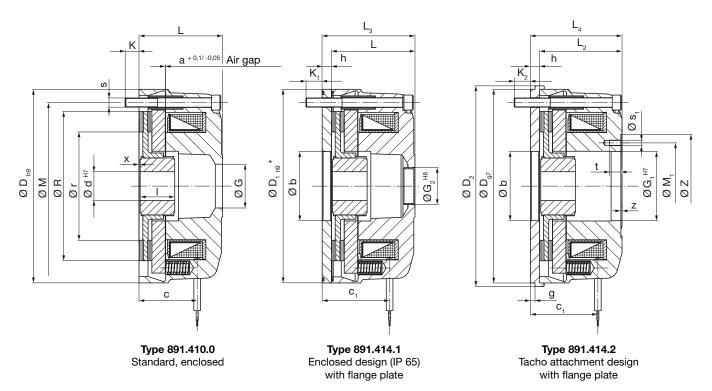
Cold Climate safety brakes for wind power plants





ROBA-stop®-M Cold Climate Version

Type 891.4 _ _._ Sizes 16 to 150



^{*} Flange plate outer diameter: -0,2

Dimensions [mm]					
Dimensions [min]	16	32	60	100	150
а	0,2	0,2	0,25	0,3	0,3
b	42	52	60	78	84
С	35,5	39,2	50,5	54	59
C ₁	42,5	47,2	58,5	64	71
D	128	148	168	200	221
D ₁	130	148	168	200	221
$D_{\!\scriptscriptstyle 2}$	134	154	174	206	227

Standard voltages 24; 104; 180; 207 V. Permitted voltage tolerance acc. DIN IEC 60038 ($\pm 10~\%$).

We reserve the right to make dimensional and constructional alterations.

Dimensions [mm]					
Difficusions [illin]	16	32	60	100	150
G	33	36	38	48	55
G,	40,5	52,5	60	75,5	82,5
G ₂ ^{H8}	22	28	32	42	48
g	4	4	4	5	6
h	7	8	8	10	12
K	12,3	8,3	12	12	20
K ₁	10,3	10,3	14	12	18
K ₂	10,3	10,3	14	12	18
L	55,7	61,7	72,5	84	97
L_2	54,7	60,7	71,5	83	96
L ₃	62,7	69,7	69,7 80,5		109
L ₄	61,7	68,7	79,5	93	108
I	20	25	30	30	35
M	112	132	145	170	196
M ₁	52	61	75	88	100
R	101	121	129,5	154	178
r	71	84	95	106	122
S	3 x M6	3 x M6	3 x M8	3 x M8	3 x M8
S ₁	3 x M4	3 x M5	3 x M5	3 x M5	3 x M6
t	10	10	10	10	10
x	0 - 0,5	0 - 0,5	0 - 2	0 - 3	0 - 3
Z	65	75	90	100	115
Z	1	1	1	1	1

Technical Data			Size						
recillical Data			16	32	60	100	150		
Nominal braking torque	Standard	Type 891.41	M _{nenn}	[Nm]	20	40	75	130	200
		Type 891.42	[Nm]	17	34	63	110	160	
	Reduced	Type 891.43	Type 891.43		14	27	51	90	130
Braking torque	neuuceu	Type 891.44	[Nm]	10	20	38	65	100	
adjustment		Type 891.45		[Nm]	7	13,5	26	45	65
	Increased	Type 891.47		[Nm]	23	46	86	145	-
		Type 891.48		[Nm]	26	50	100	160	-
Electrical power		P _{nenn}	[W]	38	46	69	88	98	
Maximum speed	n _{max}	[rpm]	3500	3000	3000	2500	1500		
Weight		Standard brake Type 891.41	m	[kg]	3,4	4,5	7,4	13,6	19,2

Permitted Hub Bores							Size					
Permitted	nub bores	16	32	60	100	150						
			6885/1	min.	14	19	22	29	38			
	Type 891.41 to	Keyway		max.	[mm]	23	28,5	31	41,5	44		
	Type 891.45	JS9	6885/3	min.		17,5	21,5	26	-	-		
Ø d ^{H7}				max.		24	30	33	-	-		
			6885/1	min. 14,5 23	23	35,5	-					
	Type 891.47	Keyway	0000/1	max.	[mm]	21,5	29	29	39	-		
	Type 891.48	JS9	6885/3	min.		17,5	22,5	30,5	-	-		
			0000/3	max.		22,5	29,5	-	-	-		

We reserve the right to make dimensional and constructional alterations.

Order	Numbe	r										
Nominal braking torque, standard Braking torque adjustment, reduced ¹⁾ Braking torque adjustment, increased ¹⁾ 8				0 4	Without additional parts Flange plate							
					∇	∇						
	/ 8	9	1.					_	/	/		/
\triangle				Δ					Δ		\triangle	\triangle
Sizes 16 to 150	Low-tem Standard	perature br	ake CCV 4	4	Standar Enclose design I Tacho d	d P65	0 1 2		Coil voltage [VDC] 24 104 180 207		Hub bore Ø d ^{H7}	Keyway acc. DIN 6885/1 or DIN 6885/3

Example: 16 / 891.430.0 / 24 / 16 / 6885/1

¹⁾ See Technical Data.



Cold Climate safety brakes for wind power plants and other low temperature applications

Reliable and versatile in use up to - 40 °C

☐ Pitch drives

☐ Yaw drives

□ Service elevators

■ Maintenance platforms

■ Winches

□ Cranes









The perfect safety brakes for offshore applications





Chr. Mayr GmbH + Co. KG Eichenstrasse 1, D-87665 Mauerstetten Tel.: +49 83 41/8 04-0, Fax: +49 83 41/80 44 21 www.mayr.com, E-Mail: info@mayr.com



Service Germany

Baden-Württemberg

Esslinger Straße 7 70771 Leinfelden-Echterdingen Tel.: 07 11/45 96 01 0

Fax: 07 11/45 96 01 10

Hagen

Im Langenstück 6 58093 Hagen Tel.: 0 23 31/78 03 0

Fax: 0 23 31/78 03 0

Bavaria

Eichenstrasse 1 87665 Mauerstetten Tel.: 0 83 41/80 41 04 Fax: 0 83 41/80 44 23

Kamen

Lünener Strasse 211 59174 Kamen Tel.: 0 23 07/23 63 85 Fax: 0 23 07/24 26 74 Chemnitz

Bornaer Straße 205 09114 Chemnitz Tel.: 03 71/4 74 18 96 Fax: 03 71/4 74 18 95

North

Schiefer Brink 8 32699 Extertal Tel.: 0 57 54/9 20 77 Fax: 0 57 54/9 20 78 Franken

Unterer Markt 9 91217 Hersbruck Tel.: 0 91 51/81 48 64 Fax: 0 91 51/81 62 45

Rhine-Main

Hans-Böckler-Straße 6 64823 Groß-Umstadt Tel.: 0 60 78/7 82 53 37 Fax: 0 60 78/9 30 08 00

Branch office

China

Mayr Zhangjiagang Power Transmission Co., Ltd. Changxing Road No. 16, 215600 Zhangjiagang Tel.: 05 12/58 91-75 65 Fax: 05 12/58 91-75 66 info@mayr-ptc.cn

Singapore

Mayr Transmission (S) PTE Ltd. No. 8 Boon Lay Way Unit 03-06, TradeHub 21 Singapore 609964 Tel.: 00 65/65 60 12 30 Fax: 00 65/65 60 10 00

Fax: 00 65/65 60 10 00 info@mayr.com.sg

Great Britain

Mayr Transmissions Ltd. Valley Road, Business Park Keighley, BD21 4LZ West Yorkshire Tel.: 0 15 35/66 39 00 Fax: 0 15 35/66 32 61 sales@mayr.co.uk

Switzerland

Mayr Kupplungen AG Tobeläckerstrasse 11 8212 Neuhausen am Rheinfall Tel.: 0 52/6 74 08 70 Fax: 0 52/6 74 08 75 info@mayr.ch **France**

Mayr France S.A. Z.A.L. du Minopole Rue Nungesser et Coli 62160 Bully-Les-Mines Tel.: 03.21.72.91.91 Fax: 03.21.29.71.77 contact@mayr.fr

USA

Mayr Corporation 4 North Street Waldwick NJ 07463

Tel.: 2 01/4 45-72 10 Fax: 2 01/4 45-80 19 info@mayrcorp.com Italy

Mayr Italia S.r.I. Viale Veneto, 3 35020 Saonara (PD) Tel.: 0498/79 10 20 Fax: 0498/79 10 22 info@mayr-italia.it

Representatives

Australia

Regal Beloit Australia Pty Ltd. 19 Corporate Ave 03178 Rowville, Victoria Australien

Tel.: 0 3/92 37 40 00 Fax: 0 3/92 37 40 80 salesAUvic@regalbeloit.com

Poland

Wamex Sp. z o.o. ul. Pozaryskiego, 28 04-703 Warszawa Tel.: 0 22/6 15 90 80 Fax: 0 22/8 15 61 80 wamex@wamex.com.pl India

National Engineering Company (NENCO) J-225, M.I.D.C. Bhosari Pune 411026 Tel.: 0 20/27 13 00 29 Fax: 0 20/27 13 02 29 nenco@nenco.org

South Korea

Mayr Korea Co. Ltd.
Room No.1002, 10th floor,
Nex Zone, SK TECHNOPARK,
77-1, SungSan-Dong,
SungSan-Gu, Changwon, Korea
Tel.: 0 55/2 62-40 24

Tel.: 0 55/2 62-40 24 Fax: 0 55/2 62-40 25 info@mayrkorea.com Japan

MATSUI Corporation 2-4-7 Azabudai Minato-ku Tokyo 106-8641 Tel.: 03/35 86-41 41 Fax: 03/32 24 24 10 k.goto@matsui-corp.co.jp

Taiwan

German Tech Auto Co., Ltd. No. 28, Fenggong Zhong Road, Shengang Dist., Taichung City 429, Taiwan R.O.C.

Tel.: 04/25 15 05 66 Fax: 04/25 15 24 13 abby@zfgta.com.tw Netherlands

Groneman BV Amarilstraat 11 7554 TV Hengelo OV Tel.: 074/2 55 11 40 Fax: 074/2 55 11 09

aandrijftechniek@groneman.nl

Czech Republic

BMC BALTAS s. r. o. Hviezdoslavova 29 b 62700 Brno

Tel.: 05/45 22 60 47 Fax: 05/45 22 60 48 info@bmcbaltas.cz

More representatives:

Austria, Belgium, Brazil, Canada, Denmark, Finland, Greece, Hongkong, Hungary, Indonesia, Israel, Luxembourg, Malaysia, New Zealand, Norway, Philippines, Romania, Russia, Slovakia, Slovenia, South Africa, Spain, Sweden, Thailand, Turkey

You can find the complete address for the representative responsible for your area under www.mayr.com in the internet.