PNEUMATIC MODULAR VANE MOTORS

HP 0,53 KW 0,38

Series M53...

The motors of the M53 series are endowed with case and end plate in AISI 303 stainless steel, and the possibility, upon request, of having even the exit shaft in the same material by adding "051" after the M53 code.
The gamma offers reversible and non reversible motors. Non reversible motors are furnished with standard dextrorse rotation (counter clockwise facing the shaft). To order them with sinistrorse rotation add "015" after the code.
There is often the need to coalesce the motor to other equipment or simply to an interfacing flange, in this case safe alignment is necessary. To achieve this, all motors may be assembled with a protruding bearing. To order the motor with this modification, add "019" after the code.
The single-stage, two-stage and three-stage models may also be internally equipped with an irreversibility devise that prevents the exit shaft to rotate when the motor is in static condition. To order the motor with this devise, add "102" after the code.
The entire gamma is in accordance to European Directive for products destined to be used in potentially explosive atmospheres ATEX II cat.2 G&D T5.

All the models of the M53 series can be ordered in version NO LUBE adding the N letter in front of the code of the article standard.

GLOBE AIRMOTORS B.V.

SERIES M53..... - HP 0,53 KW 0,38 Ex

PERFORMANCE AND DIMENSIONS

MODEL		Free speed Rpm			Speed at maximum Power Rpm			Torque at maximum Power N•m			Starting torque N•m			Stall torque N•m			Length "A" mm	Weight kg	N° Reduction gears
Reversible	Non Reversible	7 bar	5 bar	3 bar	7 bar	5 bar	3 bar	7 bar	5 bar	3 bar	7 bar	5 bar	3 bar	7 bar	5 bar	3 bar			
		HP 0,53	HP 0,35	HP 0,15	HP 0,53	HP 0,35	HP 0,15	HP 0,53	HP 0,35	HP 0,15	HP 0,53	HP 0,35	HP 0,15	HP 0,53	HP 0,35	HP 0,15			
M53R0	M53N0	15000	13400	11800	7500	6700	5900	0,5	0,3	0,1	0,6	0,4	0,2	0,9	0,6	0,3	118	0,9	0
M53R1A	M53N1A	3800	3400	3000	1900	1700	1500	1,9	1,4	0,7	2,9	1,8	1,0	3,9	2,8	1,4	118	0,9	1
M53R1B	M53N1B	2800	2550	2250	1400	1275	1125	2,6	1,9	0,9	3,9	2,8	1,3	5,2	3,8	1,8	118	0,9	1
M53R1C	M53N1C	2400	2180	1930	1200	1090	965	3,0	2,2	1,1	4,5	3,3	1,6	6,0	4,4	2,2	118	0,9	1
M53R1D	M53N1D	2100	1900	1690	1050	850	845	3,5	2,4	1,2	5,2	4,2	1,8	7,0	5,6	2,4	118	0,9	1
M53R2	M53N2	1200	1000	900	600	500	450	6,3	4,8	2,3	9,6	6,0	3,3	13	9,3	4,7	135	1,0	2
M53R2A	M53N2A	900	755	670	450	377	335	8,0	6,3	3,1	12	9,4	4,6	16	13	6,2	135	1,0	2
M53R2B	M53N2B	630	565	500	315	282	230	11	8,4	4,2	17	13	6,3	23	17	8,4	135	1,0	2
M53R2C	M53N2C	540	485	430	270	242	215	13	10	4,9	19	15	7,3	26	20	9,8	135	1,0	2
M53R2D	M53N2D	480	425	375	240	212	187	15	11	5,6	22	16	8,4	30	22	11	135	1,0	2
M53R3	M53N3	270	220	200	135	110	100	27	20	10	40	31	15	53	41	21	157	1,2	3
M53R3A	M53N3A	190	168	150	85	84	75	42	28	14	63	42	21	84	56	28	157	1,2	3
M53R3B	M53N3B	140	126	110	70	63	55	51	38	19	75	57	28	102	76	38	157	1,2	3
M53R3C	M53N3C	120	108	95	60	54	48	60	44	22	90	66	33	120	88	44	157	1,2	3
M53R3D	M53N3D	110	95	83	55	47	42	65	50	25	97	75	37	130	100	50	157	1,2	3
M53R4	M53N4	60	50	45	30	25	22	140	93	47	210	140	70	280	185	93	175	1,3	4
M53R4A	M53N4A	46	37	33	23	19	16	157	125	65	235	187	97	315	250	130	175	1,3	4
M53R4B	M53N4B	32	28	24	16	14	12	230	170	87	345	255	145	460	340	194	175	1,3	4
M53R4C	M53N4C	26	24	21	13	12	10	277	198	105	410	297	157	550	396	210	175	1,3	4
M53R4D	M53N4D	23	21	18	11	10	9	328	238	117	485	357	175	650	476	234	175	1,3	4

Air consumption	8,6 l/sec at 7 bar	7,4 l/sec at 6 bar	6,2 l/sec at 5 bar	5,1 l/sec at 4 bar	3,8 l/sec at 3 bar	2,4 l/sec at 2 bar

Attention

The motors of the M53 series can not be submitted to resistant torques over 60 N•m. Admitting values in the coloured field of green are to be considered purely indicative

lubrication: 2-3 drops/min in continuous service
4-6 drops/min in intermittent service
filtration: 64 µ or better
radial load: 2000 N max
axial load: not allowed
Operating temperature: -20°C to +80°C