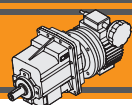


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Caratteristiche tecniche

Tecnical features

I motovariariduttori della serie CMGV hanno le seguenti caratteristiche principali:

- Precisione nella regolazione della velocità, contenuta in $\pm 0.5/1\%$.
- Campo di regolazione continuo 1:5.
- Le grandezze CMG 00, 01, 02, 03, 04 sono costruite con carcassa in Alluminio. La grandezza 05 è costruita con carcassa in ghisa.
- Le grandezze VAM018, 037, e 075 sono costruite con carcassa in Alluminio, le altre grandezze in ghisa.

CMGV mechanical variators and helical gearboxes main features:

- Precision in speed regulation: $\pm 0.5/1\%$
- Speed range 1:5
- Die-cast aluminum housing on CMG 00, 01, 02, 03 and 04. Cast iron housing on CMG05.
- Die-cast aluminum housing on VAM018, 037 and 075. Cast iron housing on the other sizes.

Designazione

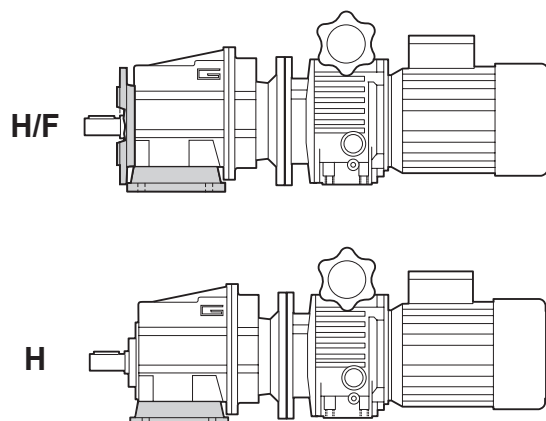
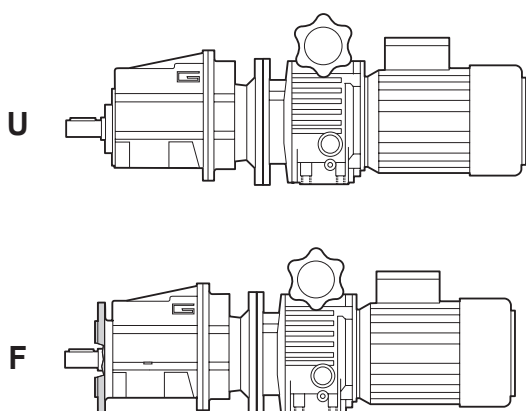
Designation

RIDUTTORE / GEARBOX				
CMGV	043/040	H75	9.81	B3/1
Tipo Type	Grandezza Size	Versione Version	Rapporto Ratio	Posizione di montaggio Mounting position
CMGV	002/018 — 043/040	U... H... F... H.../F...	vedi tabella see tables	Vedi pag. K3 See page K3

MOTORE / MOTOR				
0.37kW	4p	3ph	50Hz	T1
Potenza Power Vedi tabella See tables	Poli Poles 2p 4p	Fasi Phases 1ph 3ph	Frequenza Frequency 50Hz 60Hz	Pos. morsettiera Terminal box pos. Vedi pag. K3 See page K3

Versioni

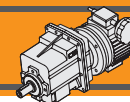
Versions



Simbologia

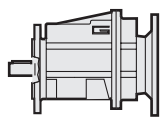
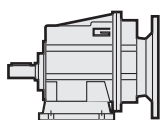
Symbols

n_1	[min ⁻¹]	Velocità in ingresso / Input speed
n_2	[min ⁻¹]	Velocità in uscita / Output speed
i		Rapporto di riduzione / Ratio
P_1	[kW]	Potenza in entrata / Input power
M_2	[Nm]	Coppia nominale in uscita in funzione di P_1 / Output torque referred to P_1
sf		Fattore di servizio / Service factor
R_2	[N]	Carico radiale ammissibile in uscita / Permitted output radial load
A_2	[N]	Carico assiale ammissibile in uscita / Permitted output axial load

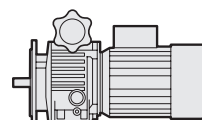


Lubrificazione

Lubrication



CMG



VAM

I riduttori CMG 00, 01, 02 03, 04 sono forniti completi di lubrificante, pertanto possono essere installati in qualunque posizione di montaggio e non necessitano di manutenzione. La grandezza CMG 05 è fornita completa di lubrificante per posizione B3. I variatori VAM sono forniti completi di lubrificante per posizione B3.

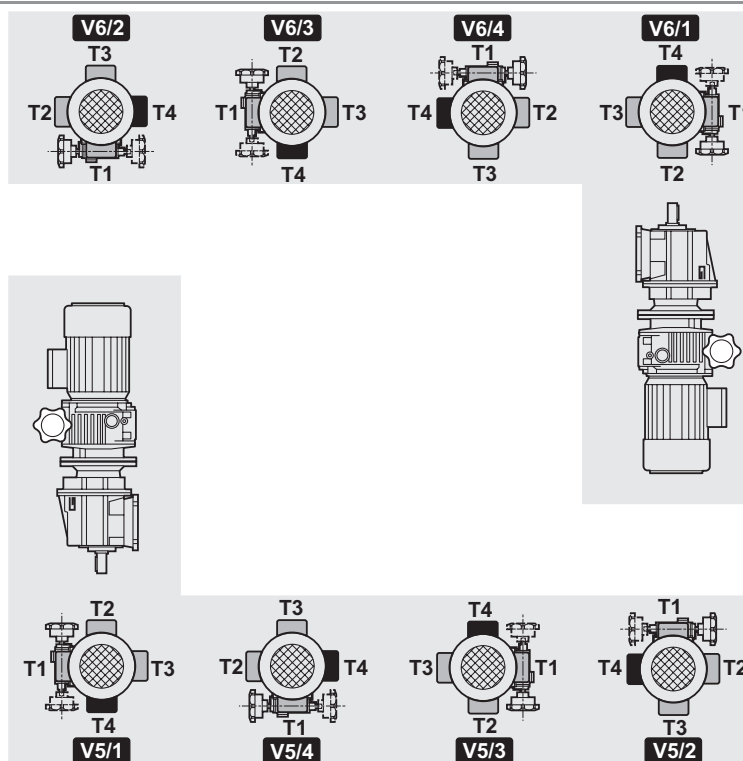
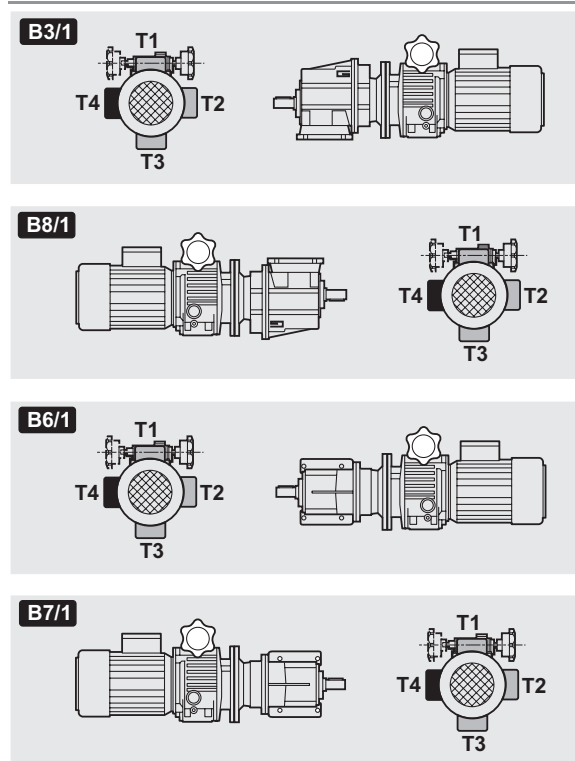
All CMG gear units are supplied complete with lubricant. For this reason they can be installed in any assembly position and do not require maintenance. CMG 05 is supplied filled with lubricant for B3 position. Vam are supplied filled with lubricant for B3 position.

Pos. mont. Mount. pos.	Quantità di olio (litri) / Oil quantity (liters)					
	VAM					
	018	037	075	15	22	40
B3 - B5 - B6 - B7 - B8	0.15	0.20	0.35	0.80	1.2	1.2
V1 - V3 - V5 - V6	0.20	0.30	0.45	1.00	1.2	1.2

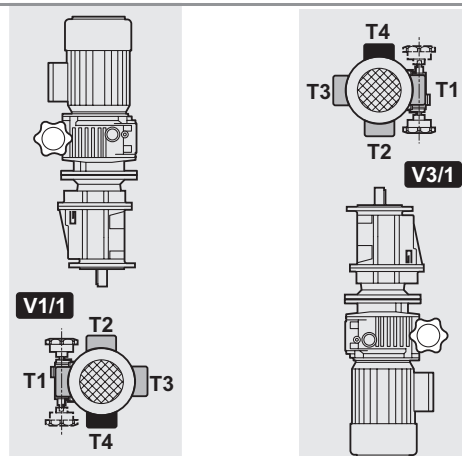
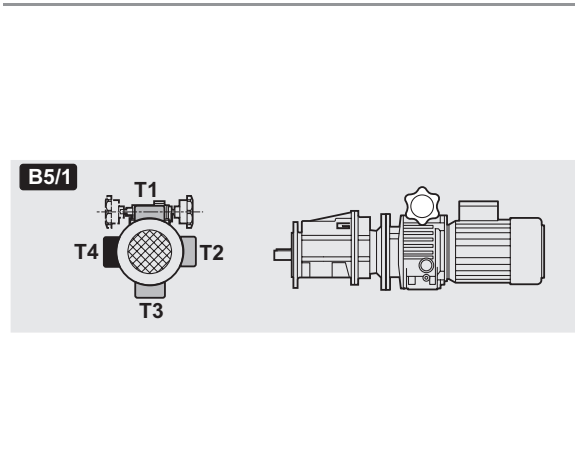
Posizioni di montaggio

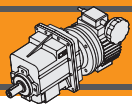
Mounting positions

Versione / Version **H.. - H../F..**



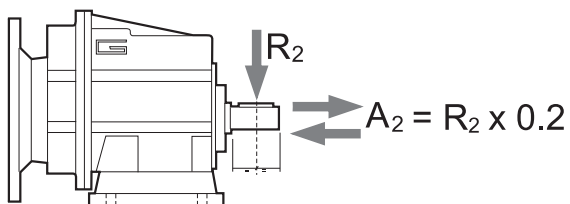
Versione / Version **U.. - F..**



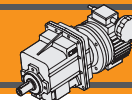


Carichi radiali

Radial loads



n_2 [min ⁻¹]	R_2 [N]					
	CMG 00	CMG 01	CMG 02	CMG 03	CMG 04	CMG 05
700	416	764	1529	1987	2379	3556
600	437	805	1609	2092	2504	3744
500	465	855	1710	2223	2661	3979
400	501	921	1842	2395	2866	4286
250	586	1077	2154	2801	3353	5013
180	653	1323	2554	3321	3897	5853
150	748	1406	2714	3529	4244	6392
120	806	1631	3467	3801	4572	7388
100	958	1842	3684	4507	5234	7851
80	1032	1984	3969	5042	5991	8963
60	1136	2184	4368	5549	6594	10483
40	1300	2500	5000	6500	8000	12000
10	1300	2500	5000	6500	8000	12000



Dati tecnici

Technical data

P ₁ [kW]	velocità massima max speed			velocità minima min speed			i	
	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	n ₂ [min ⁻¹]	M ₂ [Nm]	sf		

P ₁ [kW]	velocità massima max speed			velocità minima min speed			i	
	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	n ₂ [min ⁻¹]	M ₂ [Nm]	sf		

0.22

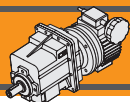
63C4 n ₁ =1400 [min ⁻¹]	175	9	4.9	33.8	18	2.5	5.03	CMGV 002/018
	144	11	4.0	27.9	22	2.1	6.1	
	117	14	3.3	22.7	27	1.7	7.49	
	97.9	16	3.4	18.9	33	1.8	8.99	
	86.6	19	3.0	16.7	37	1.6	10.16	
	72.9	22	2.5	14.1	44	1.3	12.07	
	65.7	24	3.2	12.7	49	1.6	13.4	
	58.1	28	2.8	11.2	55	1.5	15.14	
	48.4	33	2.4	9.4	66	1.2	18.17	
	40.8	39	2.0	7.9	79	1.0	21.58	
	37.4	43	1.8	7.2	86	0.9	23.51	CMGV 012/018
	35.1	46	1.7	6.8	92	0.9	25.1	
	32.5	49	1.6	6.3	99	0.8	27.08	
	27.1	59	1.3	5.2	119	0.7	32.49	
	230	7	9.7	44.5	14	5.0	3.82	
	190	8	8.0	36.7	17	4.1	4.63	
	155	10	6.5	29.9	21	3.3	5.69	
	114	14	6.4	22.0	28	3.3	7.72	
	96.0	17	5.4	18.5	33	2.8	9.17	
	89.7	18	5.0	17.3	36	2.6	9.81	
	76.5	21	5.3	14.8	42	2.7	11.50	CMGV 013/018
	73.9	22	5.2	14.3	43	2.6	11.90	
	63.8	25	5.3	12.3	50	2.7	13.80	
	60.2	27	5.0	11.6	53	2.6	14.62	
	49.3	33	4.1	9.5	65	2.1	17.86	
	46.1	35	3.9	8.9	70	2.0	19.07	
	44.4	36	3.7	8.6	72	1.9	19.83	
	37.4	43	3.1	7.2	86	1.6	23.56	
	29.8	54	2.5	5.8	108	1.3	29.56	
	24.8	65	2.1	4.8	129	1.1	35.47	
	19.2	84	1.6	3.7	167	0.8	45.89	CMGV 023/018
	18.0	89	1.5	3.5	179	0.8	49.00	
	16.5	97	1.4	3.2	195	0.7	53.33	
	18.9	83	1.6	3.6	166	0.8	46.61	
	15.9	99	1.4	3.1	198	0.7	55.36	
	13.9	113	1.2	2.7	226	0.6	63.22	
	18.6	84	2.7	3.6	169	1.4	47.19	
	15.7	100	2.2	3.0	200	1.1	56.05	
	13.7	114	2.0	2.7	229	1.0	64.01	
	11.6	136	1.6	2.2	272	0.8	76.02	
	9.7	161	1.4	1.9	323	0.7	90.29	CMGV 033/018
	7.7	204	1.1	1.5	409	0.6	114.46	
	19.5	81	4.2	3.8	161	2.1	45.21	
	14.4	110	3.1	2.8	219	1.6	61.32	
	12.1	130	2.6	2.3	260	1.3	72.83	
	9.0	174	1.9	1.7	348	1.0	97.45	
	7.6	207	1.6	1.5	413	0.8	115.74	
	6.2	251	1.3	1.2	503	0.7	140.81	
	5.0	311	1.1	1.0	622	0.6	174.26	

0.22

63C4 n ₁ =1400 [min ⁻¹]	9.0	174	3.2	1.7	348	1.7	97.45	CMGV 043/018
	7.6	207	2.7	1.5	413	1.4	115.74	
	6.2	251	2.2	1.2	503	1.1	140.81	
	5.0	311	1.8	1.0	622	0.9	174.26	
	3.9	403	1.4	0.8	805	0.7	225.47	
	3.4	468	1.2	0.6	936	0.6	262.05	

0.37

63C2 n ₁ =2800 [min ⁻¹]	350	8	4.3	67.6	18	2.5	5.03	CMGV 002/018
	289	10	3.6	55.7	22	2.1	6.1	
	235	12	2.9	45.4	27	1.7	7.49	
	196	15	3.0	37.8	33	1.8	8.99	
	173	17	2.7	33.5	37	1.6	10.16	
	146	20	2.3	28.2	44	1.3	12.07	
	131	22	2.8	25.4	49	1.6	13.4	
	116	25	2.5	22.5	55	1.5	15.14	
	96.9	30	2.1	18.7	66	1.2	18.17	
	81.6	35	1.8	15.8	79	1.0	21.58	
	74.9	38	1.6	14.5	86	0.9	23.51	CMGV 012/018
	70.1	41	1.5	13.5	92	0.9	25.1	
	65.0	44	1.4	12.6	99	0.8	27.08	
	54.2	53	1.2	10.5	119	0.7	32.49	
	461	6	8.6	89.0	14	5.0	3.82	
	380	8	7.1	73.4	17	4.1	4.63	
	309	9	5.8	59.8	21	3.3	5.69	
	228	13	5.7	44.0	28	3.3	7.72	
	192	15	4.8	37.1	33	2.8	9.17	
	179	16	4.4	34.7	36	2.6	9.81	
	153	19	4.7	29.6	42	2.7	11.50	CMGV 013/018
	148	19	4.6	28.6	43	2.6	11.90	
	128	23	4.7	24.6	50	2.7	13.80	
	120	24	4.5	23.3	53	2.6	14.62	
	98.5	29	3.7	19.0	65	2.1	17.86	
	92.3	31	3.4	17.8	70	2.0	19.07	
	88.8	32	3.3	17.1	72	1.9	19.83	
	74.7	38	2.8	14.4	86	1.6	23.56	
	59.5	48	2.2	11.5	108	1.3	29.56	
	49.6	58	1.8	9.6	129	1.1	35.47	
	38.4	75	1.4	7.4	167	0.8	45.89	CMGV 023/018
	35.9	80	1.3	6.9	179	0.8	49.00	
	33.0	87	1.2	6.4	195	0.7	53.33	
	37.8	74	1.4	7.3	166	0.8	46.61	
	31.8	88	1.2	6.1	198	0.7	55.36	
	27.8	101	1.1	5.4	226	0.6	63.22	
	37.3	75	2.4	7.2	169	1.4	47.19	
	31.4	90	2.0	6.1	200	1.1	56.05	
	27.5	102	1.7	5.3	229	1.0	64.01	
	23.2	121	1.5	4.5	272	0.8	76.02	
	19.5	144	1.2	3.8	323	0.7	90.29	CMGV 023/018
	15.4	183	1.0	3.0	409	0.6	114.46	



Dati tecnici

Technical data

P ₁ [kW]	velocità massima max speed			velocità minima min speed			i	
	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	n ₂ [min ⁻¹]	M ₂ [Nm]	sf		

P ₁ [kW]	velocità massima max speed			velocità minima min speed			i	
	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	n ₂ [min ⁻¹]	M ₂ [Nm]	sf		

0.37

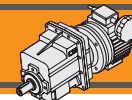
63C2 n ₁ =2800 [min ⁻¹]	38.9	72	3.7	7.5	161	2.1	45.21	CMGV 033/018
	28.7	98	2.7	5.5	219	1.6	61.32	
	24.2	116	2.3	4.7	260	1.3	72.83	
	18.1	156	1.7	3.5	348	1.0	97.45	
	15.2	185	1.4	2.9	413	0.8	115.74	
	12.5	225	1.2	2.4	503	0.7	140.81	
	10.1	278	1.0	2.0	622	0.6	174.26	
71B4 n ₁ =1400 [min ⁻¹]	199	14	3.1	39.8	29	1.6	5.03	CMGV 002/037
	164	18	2.6	32.8	35	1.3	6.1	
	134	22	2.1	26.7	43	1.1	7.49	
	111	26	2.2	22.2	52	1.1	8.99	
	98	29	1.9	19.7	59	1.0	10.16	
	83	35	1.6	16.6	70	0.8	12.07	
	75	39	2.0	14.9	77	1.0	13.4	
	66	44	1.8	13.2	87	0.9	15.14	
	55	52	1.5	11.0	105	0.8	18.17	
	46	62	1.3	9.3	124	0.6	21.58	
	43	68	1.2	8.5	135	0.6	23.51	
	40	72	1.1	8.0	145	0.6	25.1	
	262	11	6.1	52.4	22	3.1	3.82	
	216	13	5.0	43.2	27	2.6	4.63	
	176	16	4.1	35.1	33	2.1	5.69	
	130	22	4.0	25.9	44	2.1	7.72	
71B4 n ₁ =1400 [min ⁻¹]	109	26	3.4	21.8	53	1.7	9.17	CMGV 012/037
	102	28	3.2	20.4	57	1.6	9.81	
	87.0	33	3.4	17.4	66	1.7	11.50	
	84.0	34	3.3	16.8	69	1.7	11.90	
	72.5	40	3.4	14.5	79	1.7	13.80	
	68.4	42	3.2	13.7	84	1.6	14.62	
	56.0	51	2.6	11.2	103	1.3	17.86	
	52.4	55	2.4	10.5	110	1.3	19.07	
	50.4	57	2.4	10.1	114	1.2	19.83	
	42.4	68	2.0	8.5	136	1.0	23.56	
	33.8	85	1.6	6.8	170	0.8	29.56	
	28.2	102	1.3	5.6	204	0.7	35.47	
	41.9	69	3.3	8.4	137	1.7	23.85	
	33.4	86	2.6	6.7	172	1.3	29.93	
	27.8	103	2.2	5.6	207	1.1	35.91	
	21.5	134	1.7	4.3	268	0.9	46.46	
71B4 n ₁ =1400 [min ⁻¹]	20.2	143	1.6	4.0	286	0.8	49.61	CMGV 022/037
	18.5	156	1.4	3.7	311	0.7	54.00	
	22.1	127	2.6	4.4	255	1.4	45.21	
	16.3	173	1.9	3.3	346	1.0	61.32	
71B4 n ₁ =1400 [min ⁻¹]	13.7	205	1.6	2.7	411	0.8	72.83	CMGV 033/037
	10.3	275	1.2	2.1	550	0.6	97.45	
	10.3	275	1.2	2.1	550	0.6	97.45	

0.37

71B4 n ₁ =1400 [min ⁻¹]	13.7	205	2.7	2.7	411	1.4	72.83	CMGV 043/037
	10.3	275	2.0	2.1	550	1.0	97.45	
	8.6	326	1.7	1.7	653	0.9	115.74	
	7.1	397	1.4	1.4	794	0.7	140.81	
	5.7	491	1.1	1.1	983	0.6	174.26	
71B4 n ₁ =1400 [min ⁻¹]	7.8	363	2.8	1.6	727	1.4	128.84	CMGV 053/037
	5.8	486	2.1	1.2	972	1.1	172.32	
	5.4	525	1.9	1.1	1050	1.0	186.17	
	4.6	610	1.7	0.9	1219	0.8	216.19	
	4.0	702	1.4	0.8	1404	0.7	248.99	
	3.5	815	1.2	0.7	1631	0.6	289.15	

0.55

71B2 n ₁ =2800 [min ⁻¹]	398	11	3.4	79.5	29	1.6	5.03	CMGV 002/037
	328	13	2.8	65.6	35	1.3	6.1	
	267	16	2.3	53.4	43	1.1	7.49	
	222	19	2.3	44.5	52	1.1	8.99	
	197	21	2.1	39.4	59	1.0	10.16	
	166	25	1.7	33.1	70	0.8	12.07	
	149	28	2.2	29.9	77	1.0	13.4	
	132	32	1.9	26.4	87	0.9	15.14	
	110	38	1.6	22.0	105	0.8	18.17	
	92.7	46	1.4	18.5	124	0.6	21.58	
	85.1	50	1.3	17.0	135	0.6	23.51	
	79.7	53	1.2	15.9	145	0.6	25.1	
71B2 n ₁ =2800 [min ⁻¹]	524	8	6.6	105	22	3.1	3.82	CMGV 012/037
	432	10	5.5	86.4	27	2.6	4.63	
	352	12	4.4	70.3	33	2.1	5.69	
	259	16	4.4	51.8	44	2.1	7.72	
	218	19	3.7	43.6	53	1.7	9.17	
	204	21	3.4	40.8	57	1.6	9.81	
	174	24	3.7	34.8	66	1.7	11.50	
	168	25	3.5	33.6	69	1.7	11.90	
	145	29	3.7	29.0	79	1.7	13.80	
	137	31	3.5	27.4	84	1.6	14.62	
	112	38	2.8	22.4	103	1.3	17.86	
	105	40	2.7	21.0	110	1.3	19.07	
71B2 n ₁ =2800 [min ⁻¹]	101	42	2.5	20.2	114	1.2	19.83	CMGV 022/037
	84.9	50	2.1	17.0	136	1.0	23.56	
	67.7	62	1.7	13.5	170	0.8	29.56	
	56.4	75	1.4	11.3	204	0.7	35.47	
	83.9	50	3.5	16.8	137	1.7	23.85	
	66.8	63	2.8	13.4	172	1.3	29.93	
	55.7	76	2.3	11.1	207	1.1	35.91	
	43.0	98	1.8	8.6	268	0.9	46.46	
	40.3	105	1.7	8.1	286	0.8	49.61	
	37.0	114	1.6	7.4	311	0.7	54.00	
	83.9	50	3.5	16.8	137	1.7	23.85	CMGV 022/037
	66.8	63	2.8	13.4	172	1.3	29.93	



Dati tecnici

Technical data

P ₁ [kW]	velocità massima max speed			velocità minima min speed			i	
	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	n ₂ [min ⁻¹]	M ₂ [Nm]	sf		

P ₁ [kW]	velocità massima max speed			velocità minima min speed			i	
	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	n ₂ [min ⁻¹]	M ₂ [Nm]	sf		

0.55

71B2 n ₁ =2800 [min ⁻¹]	44.2	93	2.9	8.8	255	1.4	45.21	CMGV 033/037
	32.6	127	2.1	6.5	346	1.0	61.32	
	27.5	151	1.8	5.5	411	0.8	72.83	
	20.5	202	1.3	4.1	550	0.6	97.45	
	32.6	127	3.5	6.5	346	1.7	61.32	CMGV 043/037
	27.5	151	3.0	5.5	411	1.4	72.83	
	20.5	202	2.2	4.1	550	1.0	97.45	
	17.3	239	1.9	3.5	653	0.9	115.74	
	14.2	291	1.5	2.8	794	0.7	140.81	CMGV 053/037
	11.5	360	1.2	2.3	983	0.6	174.26	
	18.4	224	3.6	3.7	612	1.7	108.43	
	15.5	266	3.0	3.1	727	1.4	128.84	
	11.6	356	2.2	2.3	972	1.1	172.32	
	10.7	385	2.1	2.1	1050	1.0	186.17	
	9.3	447	1.8	1.9	1219	0.8	216.19	
	8.0	515	1.6	1.6	1404	0.7	248.99	
	6.9	598	1.3	1.4	1631	0.6	289.15	

0.75

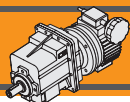
80B4 n ₁ =1400 [min ⁻¹]	22.1	255	2.2	4.4	510	1.1	45.21	CMGV 043/075
	16.3	346	1.6	3.3	692	0.8	61.32	
	13.7	411	1.4	2.7	821	0.7	72.83	
	17.8	316	3.2	3.6	632	1.6	56.05	CMGV 053/075
	15.5	364	2.8	3.1	727	1.4	64.48	
	13.3	423	2.4	2.7	846	1.2	74.96	
	12.3	457	2.2	2.5	914	1.1	81.07	
	11.6	486	2.1	2.3	973	1.1	86.24	
	9.2	612	1.6	1.8	1223	0.8	108.43	
	7.8	727	1.4	1.6	1453	0.7	128.84	

1.1

80B2 n ₁ =2800 [min ⁻¹]	547	15	5.8	109	42	2.7	3.66	CMGV 022/075
	451	19	4.8	90.3	51	2.3	4.43	
	367	23	3.9	73.4	63	1.8	5.45	
	271	31	3.4	54.1	85	1.6	7.39	
	228	37	2.9	45.6	101	1.4	8.78	
	201	42	2.5	40.3	114	1.2	9.93	
	182	47	3.8	36.3	127	1.8	11.01	
	166	51	3.5	33.2	139	1.7	12.05	
	151	56	3.2	30.3	152	1.5	13.21	
	135	63	2.8	27.0	171	1.3	14.81	
	117	72	2.0	23.4	197	0.9	17.10	
	110	77	1.8	21.9	210	0.9	18.26	CMGV 032/075
	99.6	85	2.1	19.9	231	1.0	20.08	
	83.9	101	1.8	16.8	275	0.8	23.85	
	66.8	126	1.4	13.4	345	0.7	29.93	
	55.7	152	1.2	11.1	414	0.6	35.91	
	131	65	3.9	26.1	176	1.8	15.30	CMGV 043/075
	110	77	3.2	22.0	210	1.5	18.21	
	104	81	3.1	20.8	222	1.5	19.24	
	94.6	89	2.8	18.9	244	1.3	21.15	
	65.4	129	2.1	13.1	352	1.0	30.57	
	45.3	187	1.4	9.1	509	0.7	44.18	
	39.0	217	1.2	7.8	591	0.6	51.30	
	44.2	187	2.4	8.8	510	1.1	45.21	CMGV 053/075
	32.6	254	1.8	6.5	692	0.8	61.32	
	27.5	301	1.5	5.5	821	0.7	72.83	
	31.0	267	3.0	6.2	727	1.4	64.48	
	26.7	310	2.6	5.3	846	1.2	74.96	
	24.7	335	2.4	4.9	914	1.1	81.07	
	23.2	357	2.2	4.6	973	1.1	86.24	
	18.4	448	1.8	3.7	1223	0.8	108.43	
	15.5	533	1.5	3.1	1453	0.7	128.84	

0.75

80B4 n ₁ =1400 [min ⁻¹]	274	21	5.3	54.6	42	2.7	3.66	CMGV 022/075
	225	26	4.4	45.1	51	2.3	4.43	
	184	31	3.6	36.7	63	1.8	5.45	
	135	43	3.2	27.1	85	1.6	7.39	
	114	51	2.7	22.8	101	1.4	8.78	
	101	57	2.3	20.1	114	1.2	9.93	
	90.8	63	3.5	18.2	127	1.8	11.01	
	83.0	69	3.2	16.6	139	1.7	12.05	
	75.7	76	2.9	15.1	152	1.5	13.21	
	67.5	85	2.6	13.5	171	1.3	14.81	
	58.5	98	1.8	11.7	197	0.9	17.10	
	54.8	105	1.7	11.0	210	0.9	18.26	CMGV 032/075
	49.8	116	1.9	10.0	231	1.0	20.08	
	41.9	137	1.6	8.4	275	0.8	23.85	
	33.4	172	1.3	6.7	345	0.7	29.93	
	27.8	207	1.1	5.6	414	0.6	35.91	
	91.5	63	3.2	18.3	126	1.6	10.93	
	79.3	73	3.9	15.9	145	2.0	12.60	
	75.2	77	3.7	15.0	153	1.9	13.30	
	65.4	88	3.6	13.1	176	1.8	15.30	
	54.9	105	3.0	11.0	210	1.5	18.21	
	52.0	111	2.8	10.4	222	1.5	19.24	
	47.3	122	2.6	9.5	244	1.3	21.15	
	32.7	176	1.9	6.5	352	1.0	30.57	
	22.6	254	1.3	4.5	509	0.7	44.18	
	19.5	295	1.1	3.9	591	0.6	51.30	



Dati tecnici

Technical data

P ₁ [kW]	velocità massima max speed			velocità minima min speed			i	
	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	n ₂ [min ⁻¹]	M ₂ [Nm]	sf		

P ₁ [kW]	velocità massima max speed			velocità minima min speed			i	
	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	n ₂ [min ⁻¹]	M ₂ [Nm]	sf		

1.1

90S4 n ₁ =1400 [min ⁻¹]	267	32	5.2	53.4	65	2.7	3.74	CMGV 032/15
	222	39	4.3	44.4	78	2.2	4.50	
	182	47	3.5	36.5	95	1.8	5.48	
	159	55	3.7	31.7	109	1.9	6.31	
	126	69	2.9	25.2	137	1.5	7.93	
	110	78	2.6	22.0	157	1.3	9.08	
	91.5	94	2.1	18.3	189	1.1	10.93	
	79.3	109	2.6	15.9	218	1.3	12.60	
	75.2	115	2.4	15.0	230	1.3	13.30	
	65.4	132	2.4	13.1	264	1.2	15.30	
	54.9	157	2.0	11.0	315	1.0	18.21	CMGV 042/15
	52.0	166	1.9	10.4	332	1.0	19.24	
	47.3	183	1.7	9.5	365	0.9	21.15	
	32.7	264	1.3	6.5	528	0.7	30.57	
	91.5	94	3.3	18.3	189	1.7	10.93	
	79.3	109	3.6	15.9	218	1.8	12.60	
	75.2	115	3.4	15.0	230	1.8	13.30	
	65.4	132	3.6	13.1	264	1.8	15.30	
	54.9	157	3.0	11.0	315	1.5	18.21	
	52.0	166	2.8	10.4	332	1.5	19.24	
	32.7	264	2.1	6.5	528	1.1	30.57	CMGV 052/15
	22.6	382	1.5	4.5	763	0.8	44.18	
	19.5	443	1.3	3.9	886	0.6	51.30	
	31.1	278	3.6	6.2	555	1.9	32.13	
	21.6	400	2.5	4.3	800	1.3	46.31	
	22.1	382	1.5	4.4	765	0.8	45.21	CMGV 043/15
	16.3	519	1.1	3.3	1038	0.6	61.32	
	17.8	474	2.1	3.6	948	1.1	56.05	
	15.5	545	1.8	3.1	1091	0.9	64.48	
	13.3	634	1.6	2.7	1268	0.8	74.96	
	12.3	686	1.5	2.5	1372	0.8	81.07	
	11.6	730	1.4	2.3	1459	0.7	86.24	
	9.2	917	1.1	1.8	1835	0.6	108.43	

1.5

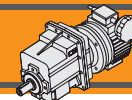
90L4 n ₁ =1400 [min ⁻¹]	267	43	3.9	53.4	86	2.0	3.74	CMGV 032/15
	222	52	3.2	44.4	104	1.7	4.50	
	182	63	2.7	36.5	126	1.4	5.48	
	159	73	2.8	31.7	145	1.4	6.31	
	126	91	2.2	25.2	183	1.1	7.93	
	110	105	1.9	22.0	209	1.0	9.08	
	91.5	126	1.6	18.3	252	0.8	10.93	
	79.3	145	1.9	15.9	290	1.0	12.60	
	75.2	153	1.8	15.0	306	0.9	13.30	
	65.4	176	1.8	13.1	353	0.9	15.30	CMGV 042/15
	54.9	210	1.5	11.0	420	0.8	18.21	
	52.0	222	1.4	10.4	443	0.7	19.24	
	47.3	244	1.3	9.5	487	0.7	21.15	
	252	69	3.4	50.4	183	1.6	7.93	CMGV 042/15
	220	78	3.2	44.1	209	1.5	9.08	
	183	94	2.6	36.6	252	1.3	10.93	
	159	109	2.9	31.7	290	1.4	12.60	
	150	115	2.7	30.1	306	1.3	13.30	
	131	132	2.8	26.1	353	1.4	15.30	
	110	157	2.4	22.0	420	1.2	18.21	
	104	166	2.2	20.8	443	1.1	19.24	
	65.4	264	1.7	13.1	704	0.8	30.57	
	45.3	382	1.2	9.1	1018	0.6	44.18	

1.5

90L4 n ₁ =1400 [min ⁻¹]	126	91	3.2	25.2	183	1.6	7.93	CMGV 042/15
	110	105	3.0	22.0	209	1.5	9.08	
	91.5	126	2.5	18.3	252	1.3	10.93	
	79.3	145	2.7	15.9	290	1.4	12.60	
	75.2	153	2.6	15.0	306	1.3	13.30	
	65.4	176	2.7	13.1	353	1.4	15.30	
	54.9	210	2.2	11.0	420	1.2	18.21	
	52.0	222	2.1	10.4	443	1.1	19.24	
	32.7	352	1.6	6.5	704	0.8	30.57	
	22.6	509	1.1	4.5	1018	0.6	44.18	CMGV 052/15
	31.1	370	2.7	6.2	740	1.4	32.13	
	21.6	534	1.9	4.3	1067	1.0	46.31	
	17.8	632	1.6	3.6	1264	0.8	56.05	
	15.5	727	1.4	3.1	1455	0.7	64.48	
	13.3	846	1.2	2.7	1691	0.6	74.96	
	12.3	914	1.1	2.5	1829	0.6	81.07	

2.2

90L2 n ₁ =2800 [min ⁻¹]	534	32	4.1	107	86	2.0	3.74	CMGV 032/15
	444	39	3.4	88.8	104	1.7	4.50	
	365	47	2.8	72.9	126	1.4	5.48	
	317	55	2.9	63.4	145	1.4	6.31	
	252	69	2.3	50.4	183	1.1	7.93	
	220	78	2.0	44.1	209	1.0	9.08	
	183	94	1.7	36.6	252	0.8	10.93	
	159	109	2.0	31.7	290	1.0	12.60	
	150	115	1.9	30.1	306	0.9	13.30	
	131	132	1.9	26.1	353	0.9	15.30	CMGV 042/15
	110	157	1.6	22.0	420	0.8	18.21	
	104	166	1.5	20.8	443	0.7	19.24	
	94.6	183	1.4	18.9	487	0.7	21.15	
	252	69	3.4	50.4	183	1.6	7.93	CMGV 042/15
	220	78	3.2	44.1	209	1.5	9.08	
	183	94	2.6	36.6	252	1.3	10.93	
	159	109	2.9	31.7	290	1.4	12.60	
	150	115	2.7	30.1	306	1.3	13.30	
	131	132	2.8	26.1	353	1.4	15.30	
	110	157	2.4	22.0	420	1.2	18.21	
	104	166	2.2	20.8	443	1.1	19.24	
	65.4	264	1.7	13.1	704	0.8	30.57	
	45.3	382	1.2	9.1	1018	0.6	44.18	



Dati tecnici

Technical data

P ₁ [kW]	velocità massima max speed			velocità minima min speed			i	
	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	n ₂ [min ⁻¹]	M ₂ [Nm]	sf		

P ₁ [kW]	velocità massima max speed			velocità minima min speed			i	
	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	n ₂ [min ⁻¹]	M ₂ [Nm]	sf		

2.2

90L2 n ₁ =2800 [min ⁻¹]	62.2	278	2.9	12.4	740	1.4	32.13	CMGV 052/15
	43.2	400	2.0	8.6	1067	1.0	46.31	
	35.7	474	1.7	7.1	1264	0.8	56.05	
	31.0	545	1.5	6.2	1455	0.7	64.48	
	26.7	634	1.3	5.3	1691	0.6	74.96	
	24.7	686	1.2	4.9	1829	0.6	81.07	
100LA4 n ₁ =1400 [min ⁻¹]	267	65	4.0	53.4	129	2.0	3.74	CMGV 042/22
	222	78	3.3	44.4	156	1.7	4.50	
	182	95	2.7	36.5	190	1.4	5.48	
	159	109	2.7	31.7	218	1.4	6.31	
	126	137	2.1	25.2	274	1.1	7.93	
	110	157	2.0	22.0	314	1.0	9.08	
	91.5	189	1.7	18.3	378	0.9	10.93	
	79.3	218	1.8	15.9	436	0.9	12.60	
	75.2	230	1.7	15.0	460	0.9	13.30	
	65.4	264	1.8	13.1	529	0.9	15.30	
	54.9	315	1.5	11.0	629	0.8	18.21	CMGV 052/22
	52.0	332	1.4	10.4	665	0.7	19.24	
	109.2	158	3.6	21.8	317	1.9	9.16	
	101.0	171	3.3	20.2	342	1.7	9.90	
	85.9	201	3.5	17.2	402	1.8	11.64	
	75.5	229	3.1	15.1	458	1.6	13.25	
	70.9	244	3.4	14.2	488	1.8	14.11	
	61.7	280	3.0	12.3	560	1.5	16.20	
	49.2	351	2.4	9.8	702	1.2	20.31	
	41.6	415	2.4	8.3	830	1.2	24.02	
	31.1	555	1.8	6.2	1110	0.9	32.13	
	21.6	800	1.3	4.3	1601	0.6	46.31	

3

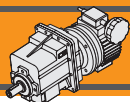
100LB4 n ₁ =1400 [min ⁻¹]	267	86	3.0	53.4	172	1.5	3.74	CMGV 042/40
	222	104	2.5	44.4	208	1.3	4.50	
	182	126	2.0	36.5	253	1.0	5.48	
	159	145	2.0	31.7	291	1.0	6.31	
	126	183	1.6	25.2	365	0.8	7.93	
	110	209	1.5	22.0	418	0.8	9.08	
	91.5	252	1.2	18.3	503	0.6	10.93	
	79.3	290	1.3	15.9	581	0.7	12.60	
	75.2	306	1.3	15.0	613	0.7	13.30	
	65.4	353	1.3	13.1	705	0.7	15.30	
	54.9	420	1.1	11.0	839	0.6	18.21	

3

100LB4 n ₁ =1400 [min ⁻¹]	265	87	5.3	52.9	174	2.7	3.78	CMGV 052/40
	208	111	4.2	41.7	221	2.1	4.80	
	172	134	3.4	34.4	268	1.8	5.82	
	150	154	3.4	29.9	308	1.8	6.68	
	119	193	2.7	23.9	386	1.4	8.37	
	109	211	2.7	21.8	422	1.4	9.16	
	101	228	2.5	20.2	456	1.3	9.90	
	85.9	268	2.6	17.2	536	1.4	11.64	
	75.5	305	2.3	15.1	610	1.2	13.25	
	70.9	325	2.6	14.2	650	1.3	14.11	
	61.7	373	2.3	12.3	746	1.2	16.20	
	49.2	468	1.8	9.8	936	0.9	20.31	
	41.6	553	1.8	8.3	1107	0.9	24.02	
	31.1	740	1.4	6.2	1480	0.7	32.13	

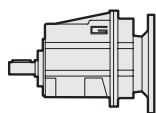
4

112M4 n ₁ =1400 [min ⁻¹]	267	115	2.2	53.4	230	1.2	3.74	CMGV 042/40
	222	138	1.9	44.4	277	1.0	4.50	
	182	168	1.5	36.5	337	0.8	5.48	
	159	194	1.5	31.7	388	0.8	6.31	
	126	244	1.2	25.2	487	0.6	7.93	
	110	279	1.1	22.0	558	0.6	9.08	
	265	116	4.0	52.9	232	2.0	3.78	CMGV 052/40
	208	147	3.1	41.7	295	1.6	4.80	
	172	179	2.6	34.4	358	1.3	5.82	
	150	205	2.6	29.9	410	1.3	6.68	
	119	257	2.0	23.9	514	1.1	8.37	
	109	281	2.0	21.8	563	1.0	9.16	
	101	304	1.9	20.2	608	1.0	9.90	
	85.9	358	2.0	17.2	715	1.0	11.64	
	75.5	407	1.7	15.1	814	0.9	13.25	
	70.9	434	1.9	14.2	867	1.0	14.11	
	61.7	498	1.7	12.3	995	0.9	16.20	
	49.2	624	1.3	9.8	1248	0.7	20.31	
	41.6	738	1.4	8.3	1476	0.7	24.02	

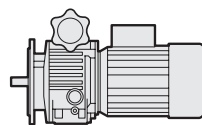


Dimensioni

Dimensions



CMG



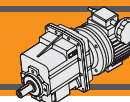
VAM

CMG	A	B	I	j1	LM	Albero uscita / Output shaft				
						D ₂ h6	E ₂	F ₂	G ₂	T ₂
002	92	81.5	0	44	143 ¹⁾ 153 ²⁾	16	40	5	M6	18
012	124	93	6.5	45	195	20	40	6	M6	22.5
013		112	43		268					
022	124	98	11.5	45	205	25	50	8	M8	28
023		117	48		278					
032	156	118	5	70	237	30	60	8	M10	33
033			41.5		303					
042	156	128	15	70	250	35	70	10	M12	38
043			51.5		316					
052	190	157	20	88	307.5	40	80	12	M16	43
053			68		380					

¹⁾ IEC 63/71, ²⁾ IEC 80

	VAM							
	G	G3	VC	VF	VL	VR	VR1	VS
018	112.5	64.5	71	111	78	110	110	85
037	110	74	71	123	90	110	110	85
075	139	85.5	79	140	107	120	120	85
15	188	115	—	144	122	120	120	85
22	208	131	—	188	150	160	—	110
40	208	131	—	188	150	160	—	110

Versione U / U Version						
CMG	H	K	L	M	N f7	O
002	2.5	11	78	64	50	n°5 M6x14
012 013	8.5	13.5	95	76	60	n°4 M8x15
022 023	8.5	13.5	95	76	60	n°4 M8x15
032 033	9	15	127	110	90	n°6 M8x19
042 043	9	15	127	110	90	n°6 M8x19
052 053	10	16	160	135	110	n°6 M10x22

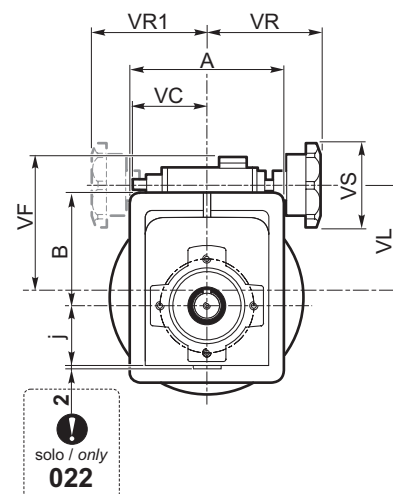
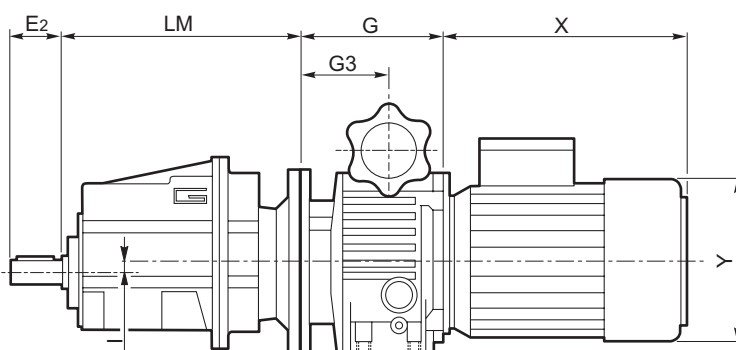


Dimensioni

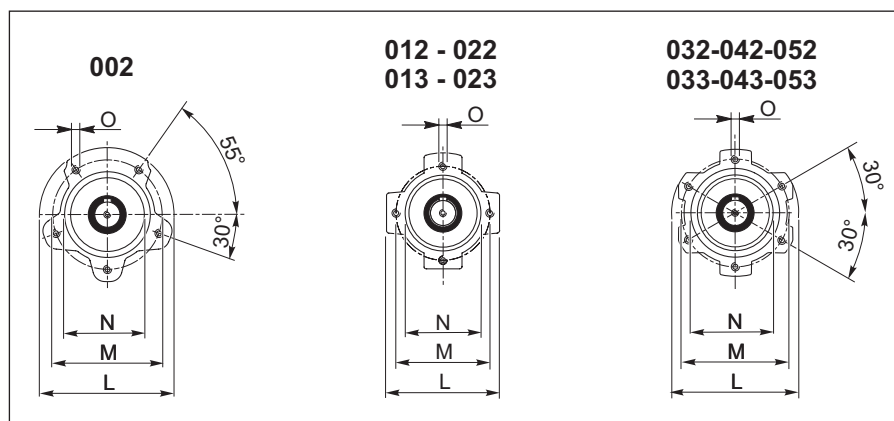
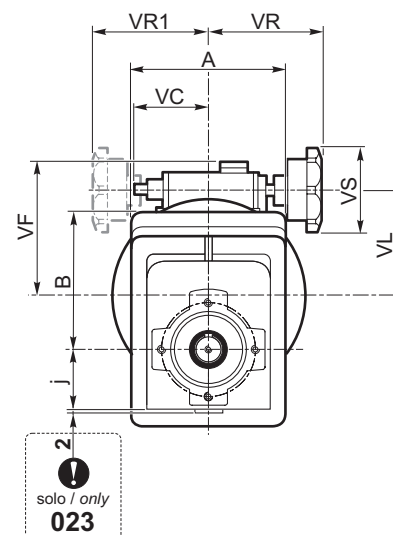
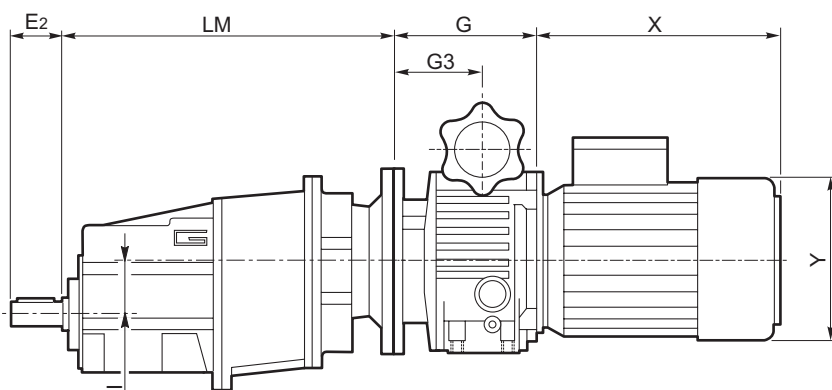
Dimensions

CMGV..U

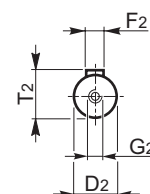
CMGV..2 U

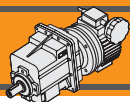


CMGV..3 U



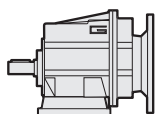
Albero uscita / Output shaft



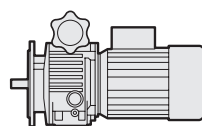


Dimensioni

Dimensions



CMG



VAM

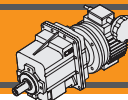
CMG	A	B	I	LM	Albero uscita / Output shaft				
					D ₂ h6	E ₂	F ₂	G ₂	T ₂
002	92	81.5	0	143 ¹⁾ 153 ²⁾	16	40	5	M6	18
012	124	93	6.5	195	20	40	6	M6	22.5
013		112	43	268					
022	124	98	11.5	205	25	50	8	M8	28
023		117	48	278					
032	156	118	5	237	30	60	8	M10	33
033			41.5	303					
042	156	128	15	250	35	70	10	M12	38
043			51.5	316					
052	190	157	20	307.5	40	80	12	M16	43
053			68	380					

¹⁾ IEC 63/71, ²⁾ IEC 80

VAM								
	G	G3	VC	VF	VL	VR	VR1	VS
018	112.5	64.5	71	111	78	110	110	85
037	110	74	71	123	90	110	110	85
075	139	85.5	79	140	107	120	120	85
15	188	115		144	122	120	120	85
22	208	131		188	150	160		110
40	208	131		188	150	160		110

Versione H / H Version										
CMG	P	Q	R	S	U	V	X	Z	Piede / Foot	
									Tipo / Type	Peso / Weight [kg]
002	18	60	80	9	100	10	60	120	H60	0.2
	18	80	104	9	110 - 120	10	75	145	H75	0.3
	18	50 - 87	110	9	110	10	85	135	H85	0.4
012 013	20	85	108	9	115	12	65	139	H65	0.7
	18	80	118	9	110	12	75	140	H75	1.0
	25	85	120	9	120	12	80	140	H80	1.1
	18	50 - 87	118	9	110	12	85	130	H85	1.2
	25	130	154	9	110	12	90	135	H90	1.5
	18	50 - 107.5	135	11	130	12	100	155	H100	1.7
022 023	20	85	108	9	115	12	65	139	H65	0.7
	18	80	118	9	110	12	75	140	H75	1.0
	25	85	120	9	120	12	80	140	H80	1.1
	18	50 - 87	118	9	110	12	85	130	H85	1.2
	25	130	154	9	110	12	90	135	H90	1.5
	18	50 - 107.5	135	11	130	12	100	155	H100	1.7
032 033	30	105	136	14	160	14	95	194	H95	1.5
	30	100	150	11	150	14	110	185	H110	1.9
	18	70			160					
	30	165	195	14	135	14	115	170	H115	2.2
	35	110	160	14	170	14	120	210	H120	2.6
042 043	30	105	136	14	160	14	95	194	H95	1.5
	30	100	150	11	150	14	110	185	H110	1.9
	18	70			160					
	30	165	195	14	135	14	115	170	H115	2.2
	35	110	160	14	170	14	120	210	H120	2.6
052 053	35	145	200	18	200	22	120	239	H120	3.5
	35	205	244	18	170	22	140	219	H140	4.3
	25	110	199	18	225	22	155	264	H155	5.1
		156								

Preferenziale / Preferred

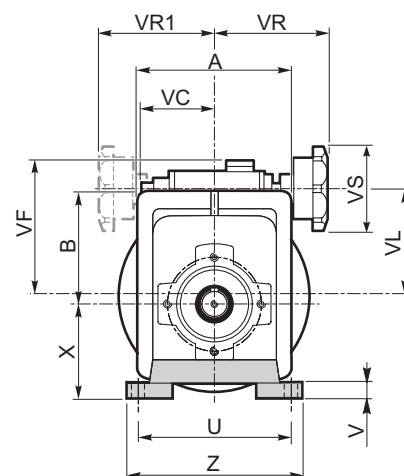
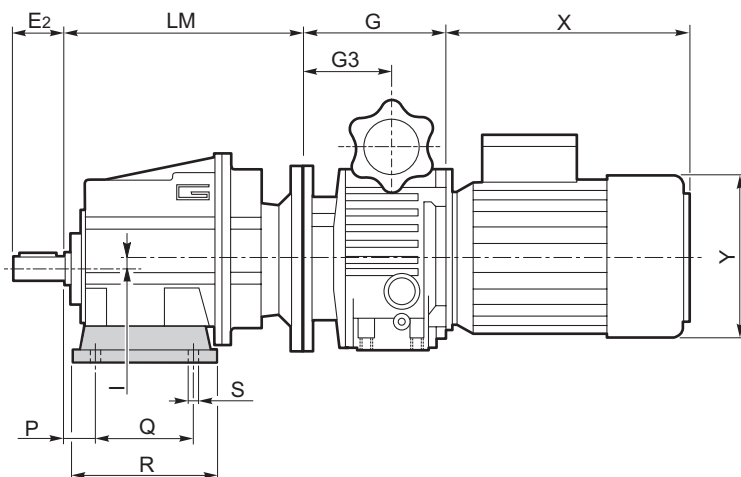


Dimensioni

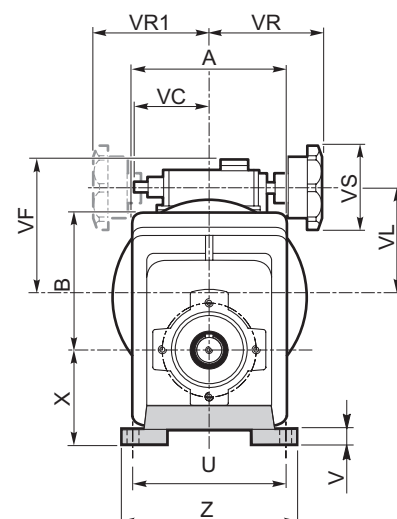
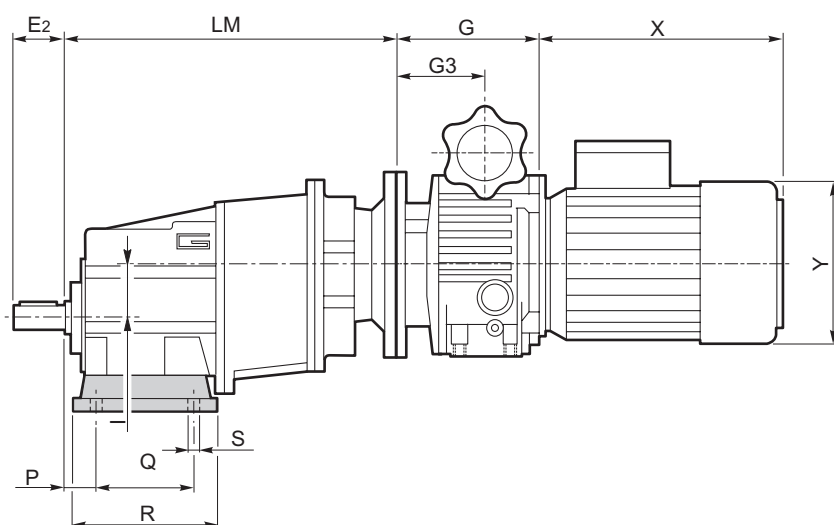
Dimensions

CMGV..H

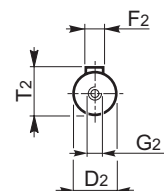
CMGV..2 H..



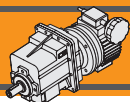
CMGV..3 H..



Albero uscita / Output shaft

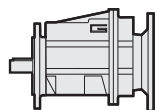


CMGV

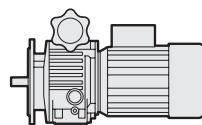


Dimensioni

Dimensions



CMG



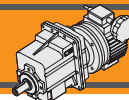
VAM

CMG	A	B	I	LM	Albero uscita / Output shaft				
					D ₂ h6	E ₂	F ₂	G ₂	T ₂
002	92	81.5	0	143 ¹⁾ 153 ²⁾	16	40	5	M6	18
012	124	93	6.5	195	20	40	6	M6	22.5
013		112	43	268					
022	124	98	11.5	205	25	50	8	M8	28
023		117	48	278					
032	156	118	5	237	30	60	8	M10	33
033			41.5	303					
042	156	128	15	250	35	70	10	M12	38
043			51.5	316					
052	190	157	20	307.5	40	80	12	M16	43
053			68	380					

¹⁾ IEC 63/71, ²⁾ IEC 80

	VAM							
	G	G3	VC	VF	VL	VR	VR1	VS
018	112.5	64.5	71	111	78	110	110	85
037	110	74	71	123	90	110	110	85
075	139	85.5	79	140	107	120	120	85
15	188	115		144	122	120	120	85
22	208	131		188	150	160		110
40	208	131		188	150	160		110

Versione F / F Version									
CMG	H	K	L	M	N f7	O	P	Flangia / Flange	
								Tipo / Type	Peso / Weight [kg]
002	3.5	7	105	85	70	6.5	90	F105	0.1
	3.5	8	120	100	80	7	100	F120	0.2
	3.5	8	140	115	95	9	115	F140	0.2
012 013	3	9	120	100	80	9	106	F120	0.5
	3.5	9	140	115	95	9	115	F140	0.8
	3.5	9	160	130	110	9	126	F160	1.1
	3.5	11	200	165	130	11	165	F200	1.8
022 023	3	9	120	100	80	9	106	F120	0.5
	3.5	9	140	115	95	9	115	F140	0.8
	3.5	9	160	130	110	9	126	F160	1.1
	3.5	11	200	165	130	11	165	F200	1.8
032 033	3.5	11	160	130	110	9	140	F160	1.0
	3.5	11	200	165	130	11	165	F200	1.8
	4	13	250	215	180	14	215	F250	2.9
042 043	3.5	11	160	130	110	9	140	F160	1.0
	3.5	11	200	165	130	11	165	F200	1.8
	4	13	250	215	180	14	215	F250	2.9
052 053	4	13	250	215	180	14	215	F250	2.9
	4	13	300	265	230	14	265	F300	4.4

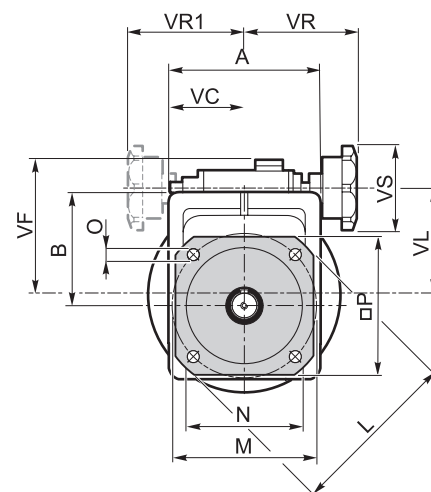
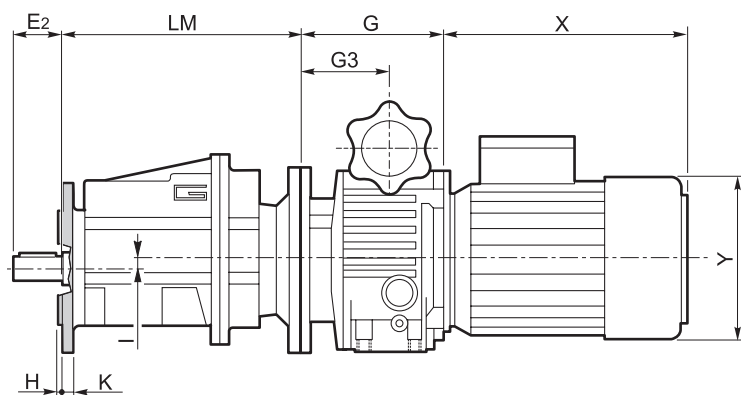


Dimensioni

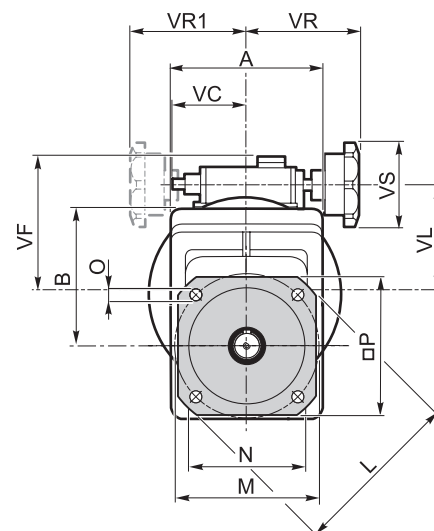
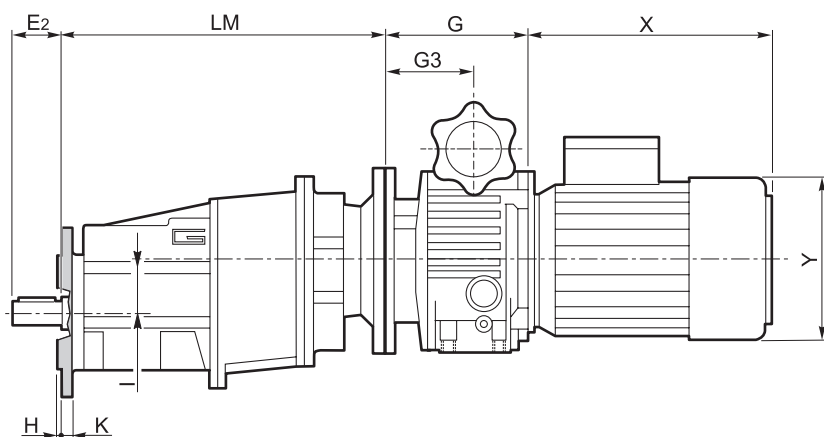
Dimensions

CMGV..F

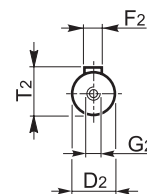
CMGV..2 F..



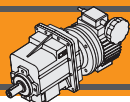
CMGV..3 F..



Albero uscita / Output shaft

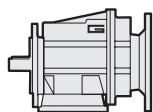


CMGV

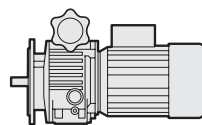


Dimensioni

Dimensions



CMG



VAM

CMG	A	B	I	LM	Albero uscita / Output shaft				
					D ₂ h6	E ₂	F ₂	G ₂	T ₂
002	92	81.5	0	143 ¹⁾ 153 ²⁾	16	40	5	M6	18
012	124	93	6.5	195	20	40	6	M6	22.5
013		112	43	268					
022	124	98	11.5	205	25	50	8	M8	28
023		117	48	278					
032	156	118	5	237	30	60	8	M10	33
033			41.5	303					
042	156	128	15	250	35	70	10	M12	38
043			51.5	316					
052	190	157	20	307.5	40	80	12	M16	43
053			68	380					

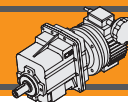
¹⁾ IEC 63/71, ²⁾ IEC 80

	VAM							
	G	G3	VC	VF	VL	VR	VR1	VS
018	112.5	64.5	71	111	78	110	110	85
037	110	74	71	123	90	110	110	85
075	139	85.5	79	140	107	120	120	85
15	188	115		144	122	120	120	85
22	208	131		188	150	160		110
40	208	131		188	150	160		110

Versione H / H Version											Combinazioni possibili H/F Possible assembling H/F						
CMG	P	Q	R	S	U	V	X	Z	Piede / Foot		F105	F120	F140	F160	F200	F250	F300
									Tipo Type	Peso [kg] Weight [kg]							
002	18	60	80	9	100	10	60	120	H60	0.2	●	●	●				
	18	80	104	9	110-120	10	75	145	H75	0.3	●	●	●				
	18	50 - 87	110	9	110	10	85	135	H85	0.4	●	●	●				
012 013	20	85	108	9	115	12	65	139	H65	0.7		●	●				
	18	80	118	9	110	12	75	140	H75	1.0		●	●	●			
	25	85	120	9	120	12	80	140	H80	1.1		●	●	●			
	18	50 - 87	118	9	110	12	85	130	H85	1.2		●	●	●			
	25	130	154	9	110	12	90	135	H90	1.5		●	●	●	●		
	18	50 - 107.5	135	11	130	12	100	155	H100	1.7		●	●	●	●		
022 023	20	85	108	9	115	12	65	139	H65	0.7		●	●				
	18	80	118	9	110	12	75	140	H75	1.0		●	●	●			
	25	85	120	9	120	12	80	140	H80	1.1		●	●	●			
	18	50 - 87	118	9	110	12	85	130	H85	1.2		●	●	●			
	25	130	154	9	110	12	90	135	H90	1.5		●	●	●	●		
	18	50 - 107.5	135	11	130	12	100	155	H100	1.7		●	●	●	●		
032 033	30	105	136	14	160	14	95	194	H95	1.5				●	●		
	30	100	150	11	150	14	110	185	H110	1.9				●	●		
	18	70			160												
	30	165	195	14	135	14	115	170	H115	2.2				●	●	●	
	35	110	160	14	170	14	120	210	H120	2.6				●	●	●	
042 043	30	105	136	14	160	14	95	194	H95	1.5				●	●		
	30	100	150	11	150	14	110	185	H110	1.9				●	●		
	18	70			160												
	30	165	195	14	135	14	115	170	H115	2.2				●	●	●	
	35	110	160	14	170	14	120	210	H120	2.6				●	●	●	
052 053	35	145	199	18	200	22	120	239	H120	3.5						●	
	35	205	244	18	170	22	140	219	H140	4.3						●	●
	25	110 156	199	18	225	22	155	264	H155	5.1						●	●

Preferenziale / Preferred

• Combinazioni possibili H/F / Possible assembling H/F

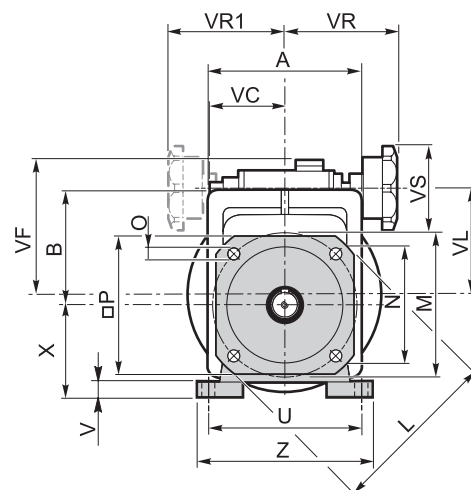
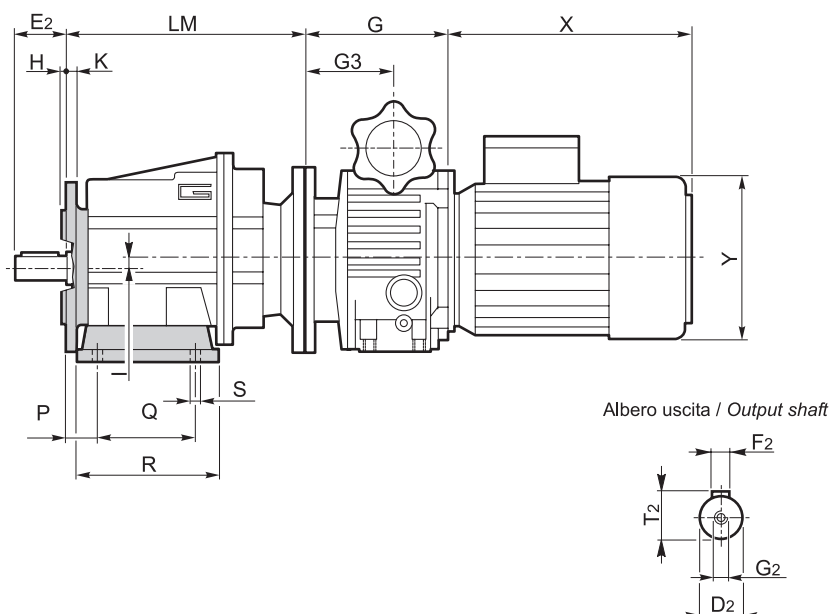


Dimensioni

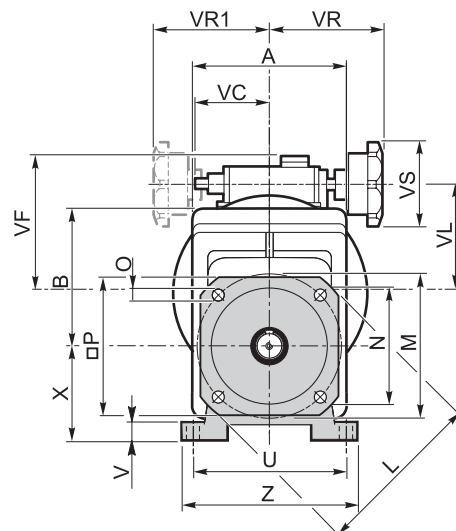
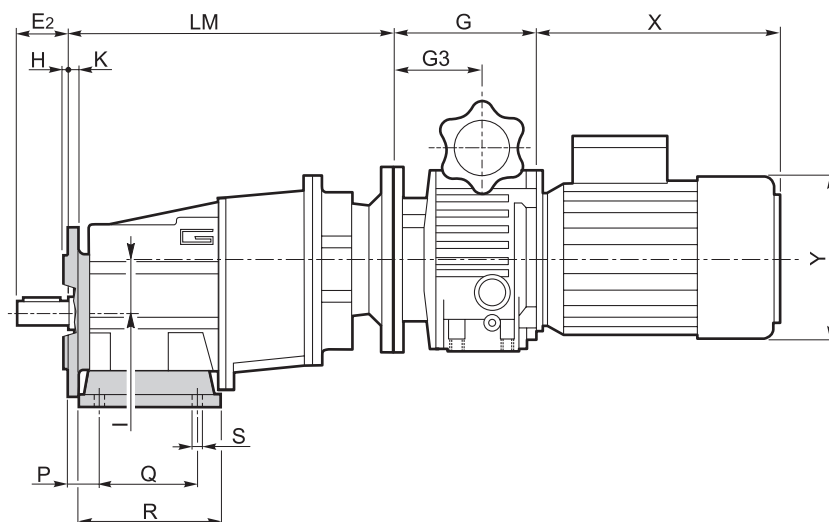
Dimensions

CMGV..H/F

CMGV..2 H../F..



CMGV..3 H../F..



Versione F / F Version									
CMG	H	K	L	M	N f7	O	P	Flangia / Flange	
								Tipo / Type	Peso / Weight [kg]
002	3.5	7	105	85	70	6.5	90	F105	0.1
	3.5	8	120	100	80	7	100	F120	0.2
	3.5	8	140	115	95	9	115	F140	0.2
012 013	3	9	120	100	80	9	106	F120	0.5
	3.5	9	140	115	95	9	115	F140	0.8
	3.5	9	160	130	110	9	126	F160	1.1
022 023	3.5	11	200	165	130	11	165	F200	1.8
	3	9	120	100	80	9	106	F120	0.5
	3.5	9	140	115	95	9	115	F140	0.8
032 033	3.5	9	160	130	110	9	126	F160	1.1
	3.5	11	200	165	130	11	165	F200	1.8
	3.5	11	160	130	110	9	140	F160	1.0
042 043	3.5	11	200	165	130	11	165	F200	1.8
	4	13	250	215	150	14	215	F250	2.9
	3.5	11	160	130	110	9	140	F160	1.0
052 053	3.5	11	200	165	130	11	165	F200	1.8
	4	13	250	215	150	14	215	F250	2.9
	4	13	300	265	230	14	265	F300	4.4



MOTOVARIATORI AD INGRANAGGI CILINDRICI
MECHANICAL VARIATORS AND HELICAL GEARBOXES

[illegible]