GS5A

GS5A			525	650	800	1000	1200	1300	1450	1600	1800
Displacements	*Cilindrate*	cm^3/rev	526	669	807	1039	1185	1340	1462	1634	1816
Alesaggio ø	*Bore Ø*	mm	42	47	52	59	63	67	70	74	78
Shaft	*Corsa*	mm	76	76	76	76	76	76	76	76	76
Specific Torque	*Coppia Spec.*	Nm/bar	8.22	10.3	12.6	16.2	18.5	20.9	22.8	25.35	28.3
Cont. Pressure	*Press. Cont.*	bar	250	250	250	250	250	250	250	250	250
Peak Pressure	*Press. Picco*	bar	450	450	425	425	400	400	375	375	350
Cont. Speed	*Velocita' Cont.*	rpm	500	500	500	475	475	450	450	400	375
Max. Speed	*Velocita' Max*	rpm	750	730	700	680	630	600	600	600	550
Peak Power	*Potenza Picco*	kW	200	200	200	200	200	200	200	200	200

Max. freewheeling speed:			1,200 rpm
NB: Vacuum freewheeling with inlet port closed			
Weight:	approx	182 kg	400 lb
Motor casing oil capacity:		10 lit	610 cu.in
Max. casing pressure:	cont.	3 bar	42 psi
	peak	6 bar	85 psi

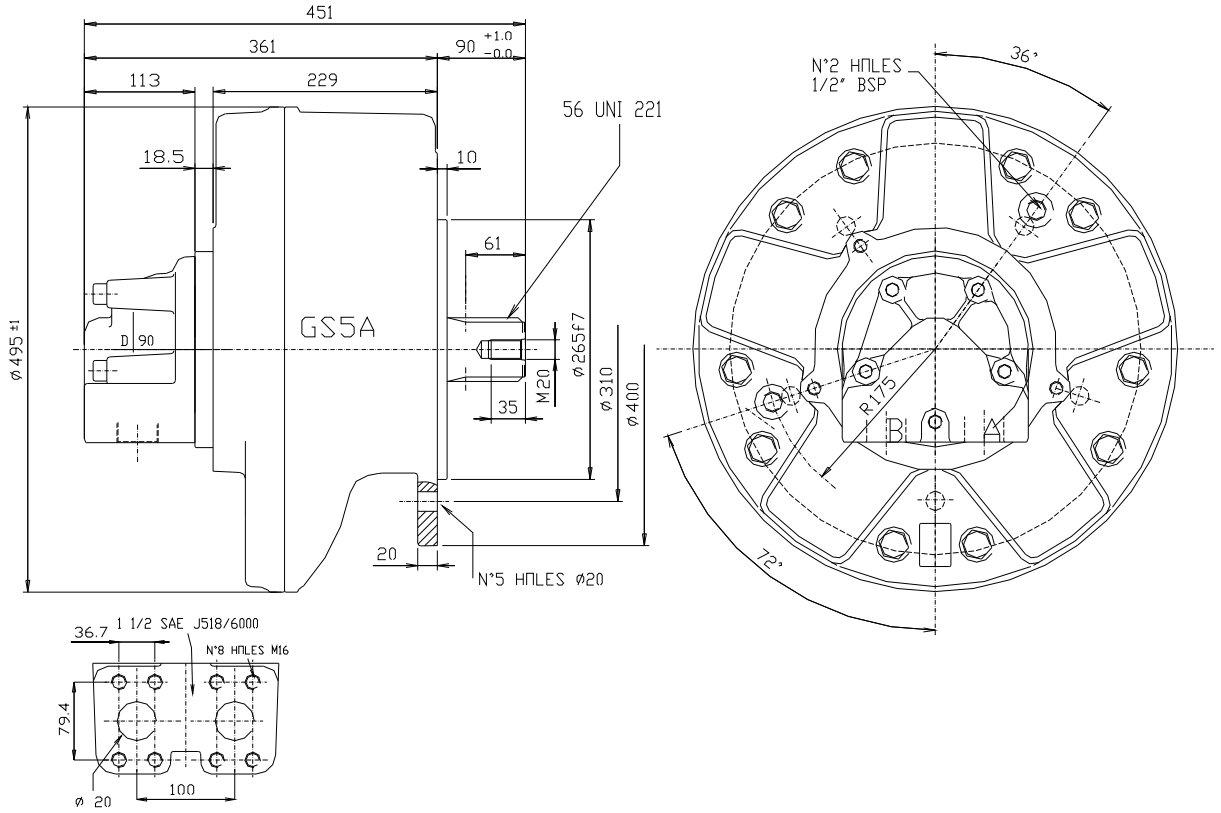
Velocità max. in folle:		*1200 giri/min*
NB: Funzionamento in "vacuum" con ingresso chiuso		
Peso:	*ca*	*182 kg*
Capacità olio corpo motore:		*10 lit*
Pressione max. carcassa:		*3 bar cont.* *6 bar picco*

NB: Continuous or average working pressure should be chosen in function of the required service lifetime (see bearing lifetime).

NB: La pressione continua o media di lavoro va determinata in funzione della vita del motore (vedi vita cuscinetti).

GS5A

DIMENSIONS — DIMENSIONI



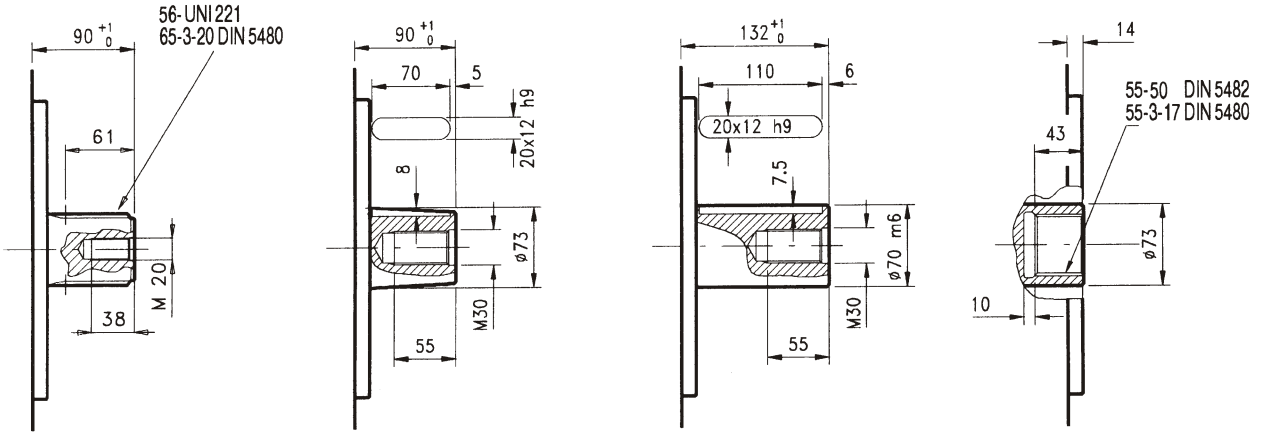
SHAFTS — *ALBERI*

Splined UNI 221 1 — *Calettato DIN 5480 7*

Tapered 2 — *Conico*

Cylindrical 8 — *Cilindrico*

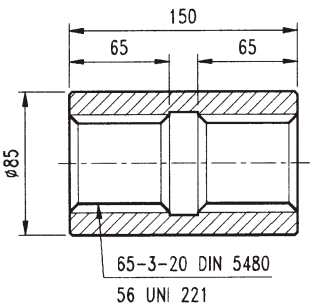
Internal spline DIN 5480 9 — *Calett. intern.* DIN 5482 3



SPLINE DATA - *CALETTATURE*

		65-3-20 DIN 5480	55-2-26 DIN 5482	55-3-17 DIN 5480	56 UNI 221
DIN	d0	Ø60.0	Ø52.0	Ø51.0	d1 Ø56.0 +0.030 +0 H7
	d1	Ø65.0 +0.740 +0 H14	Ø55.0 +0300 +0 H12	Ø55.0 +0.740 +0 H14	d2 Ø65.0 +0.190 +0 H11
	d2	Ø59.0 +0.190 +0 H11	Ø50.0 +0.160 +0 H11	Ø49.0 +0.160 +0 H11	A 10.0 +0.028 +0.013 F7
	A	Ø5.25	Ø3.5	Ø5.25	d3 Ø56.0 -0.010 -0.029 g6
UNI	da	Ø54.101 H11	Ø46.902 H10	Ø43.807 H11	d4 Ø65.0 -0.100 -0.190 d11
	d3	Ø64.4 -0 -0.190 h11	Ø54.5 -0 -0.190 h11	Ø54.4 -0 -0.190 h11	B 10.0 -0.013 -0.028 f7
	d4	Ø58.4 -0 -0.740 h14	Ø49.0 -0 -0.300 h12	Ø48.4 -0 -0.620 h14	
	B	Ø6.0	Ø3.5	Ø6.0	
	db	Ø70.999 f8	Ø56.953 e9	Ø60.873 f8	

ADAPTORS — *MANICOTTI*



GS5A

PERFORMANCE

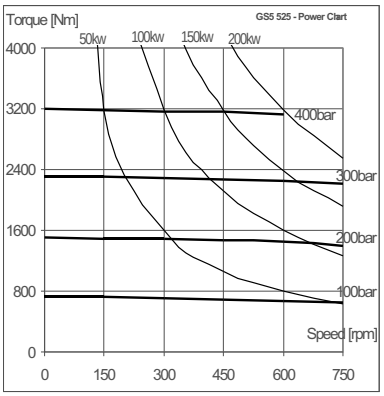
The graphs indicate the typical performance characteristics of the motors operating with mineral oi (standard ISO 68) l.

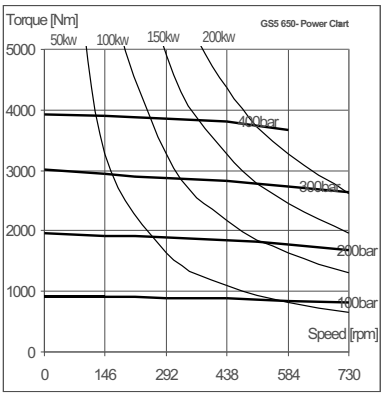
TORQUE -SPEED-POWER

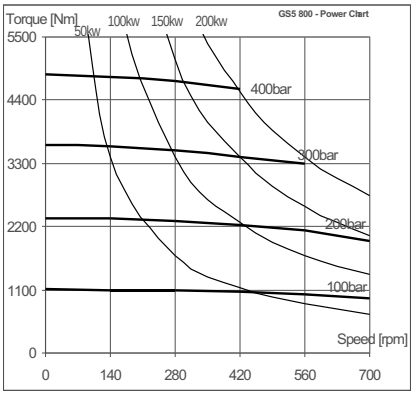
CARATTERISTICHE

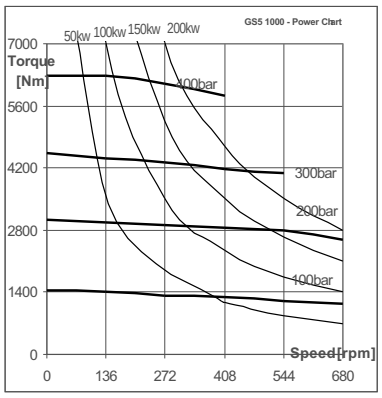
I grafici si riferiscono alle caratteristiche dei motori operando con olio minerale (standard ISO 68)..

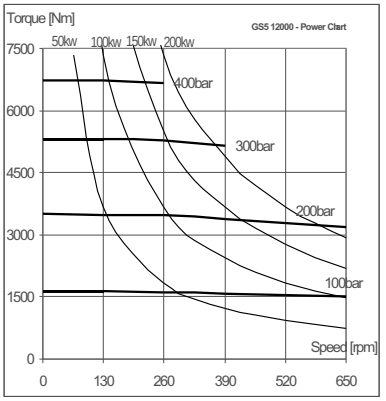
COPPIA-VELOCITÀ-POTENZA

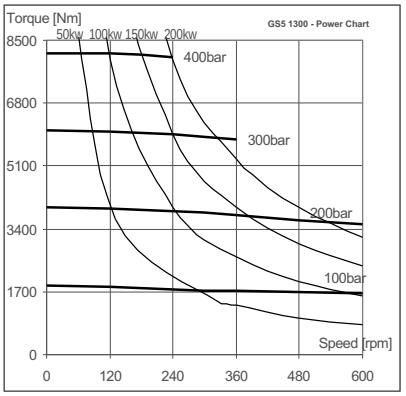


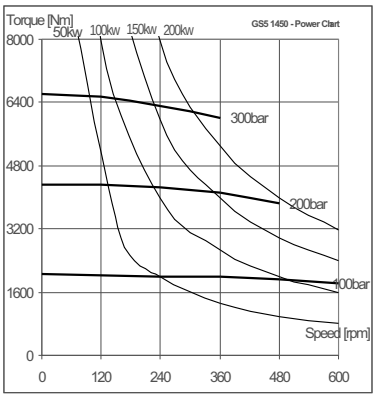


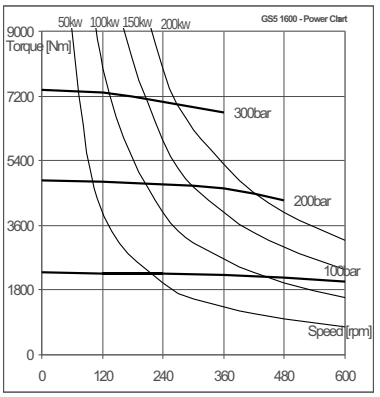


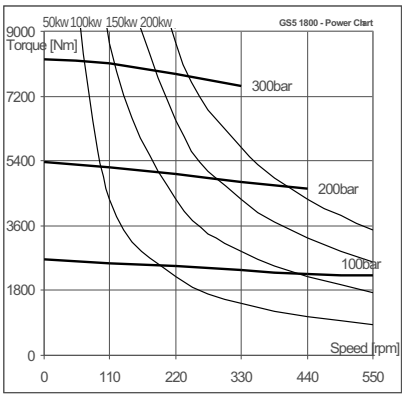












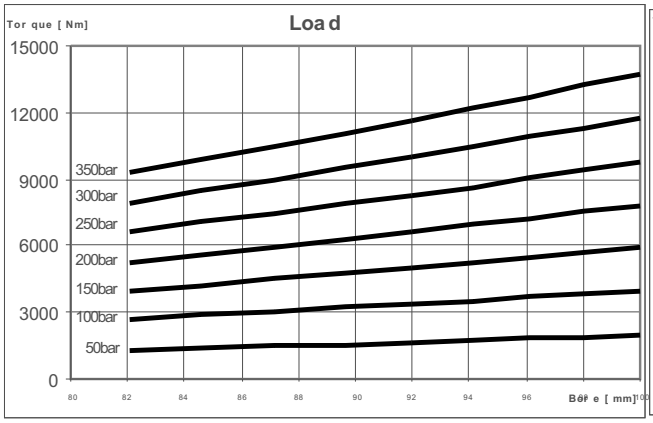
STARTING / STALLING TORQUE
The output torque of the motors does not fall off at stalling speed. The graphs above indicate the starting torque of the motors (torque at 0 rpm).

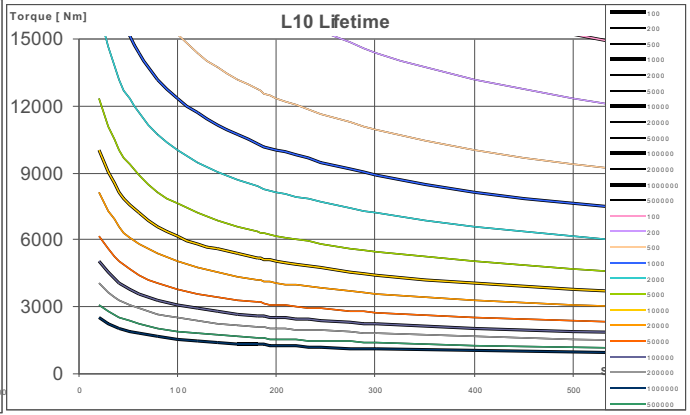
COPPIA DI SPUNTO / STALLO
La coppia erogata dal motore non diminuisce in prossimità della velocità di stallo. I grafici indicano la coppia di spunto dei motori (coppia a 0 rpm)

BEARING LIFETIME (See page 9)

Note that the average lifetime of a bearing (B_{50} lifetime) is approximately 5 times the B_{10} lifetime.

Graphs refer to GS5A motors with sph. Roller bearings (option G).





Contact SAI for software to calculate bearing lifetime.

BEARING OPTIONS

Higher capacity spherical roller bearings (option X) - the lifetime is approximately 2.29 times lifetime of the sph.roller bearings (see graph above).

ORDER CODES

GS5A	❶	❷	❸	❹	+	❺	❻	;	❼	❽

MOTOR CODE

1. Nominal displacement - see motor spec. table.

2. Shaft option:
1 = male 56 UNI 221
7 = male 65-3-20 DIN 5480
9 = female 55-3-17 DIN 5480
3 = female A 55-50 UNI 5482
2 = tapered keyed
8 = cylindrical keyed

3. Bearings:
H = roller bearings
G = spherical roller bearings
X =higher capacity sph. Roller bearings

4. Other options:
U = without shaft seal
SV = shaft seal protection
VY = Vyton seals
I = case press. relief valve 3 bar
SB= disk cage in sperical support to be always matched to opt.X
A=high poressure seal in the motor body

5. Distributor: D90 = standard

6. Tachometer:
K = pre disposed for tachometer
J = with tachometer coupling

7. Direction of shaft rotation: standard motors are supplied with clockwise rotation (viewed from shaft end) with flow in port A, out port B.
no code = clockwise rotation
L = anti-clockwise rotation

8. Distributor cover position: see page 8
no code = position DM1
DM = other position (DM2/3/4/5)

VITA CUSCINETTI *(vedi pagina 9)*

Notare che la vita media di un cuscinetto (vita B_{50}) è circa 5 volte superiore alla vita B_{10}.

I grafici si riferiscono a motori GS5A con cuscinetti a rulli a botte standard

Disponibile software per calcolo vita cuscinetti.

OPZIONI CUSCINETTI

Cuscinetti a rulli orientabili a capacita' incrementata (opzione X)- la vita e' 2.29 volte la vita dei cuscinetti a rulli a botte standard (vedi grafico).

CODICI D'ORDINE

CODICE MOTORE

1. Cilindrata nominale - *vedi tabella cilindrate.*

2. Opzioni albero :
1 = maschio 56 UNI 221 (std)
7 = maschio 65-3-20 DIN 5480
9 = femmina 55-3-17 DIN 5480
3 = femmina A 55-50 UNI 5482
2 = conico con chiavetta
8 = cilindrico con chiavetta

3. Cuscinetti:
H = cuscinetti a rulli
G = cuscinetti a rulli di botte
X = cuscinetti a rulli di botte a capacita' incrementata

4. Altre opzioni:
U = senza tenuta albero
SV = protezione tenuta albero
VY = Tenute in Vyton
I = valv. sfiato 3 bar
SB= gabbia del cuscinetto nel supporto sferico da accompagnare all'opzione X
A=anello di tenuta per alta pressione nel corpo motore

5. Distributore: *D90 = standard*

6. Contagiri:
K = predisposizione per contagiri
J = con attacco contagiri

7. Rotazione albero: *I motori sono forniti con rotazione in senso orario (visto dal lato albero) con flusso in ingresso in port A, in uscita port B.*
nessun codice = rotazione in senso orario
L = rotazione in senso anti-orario

8. Orientamento coperchio distrib.: *vedi pag. 8*
nessun codice = posizione DM 1
DM .= altra posizione (DM2/3/4/5)