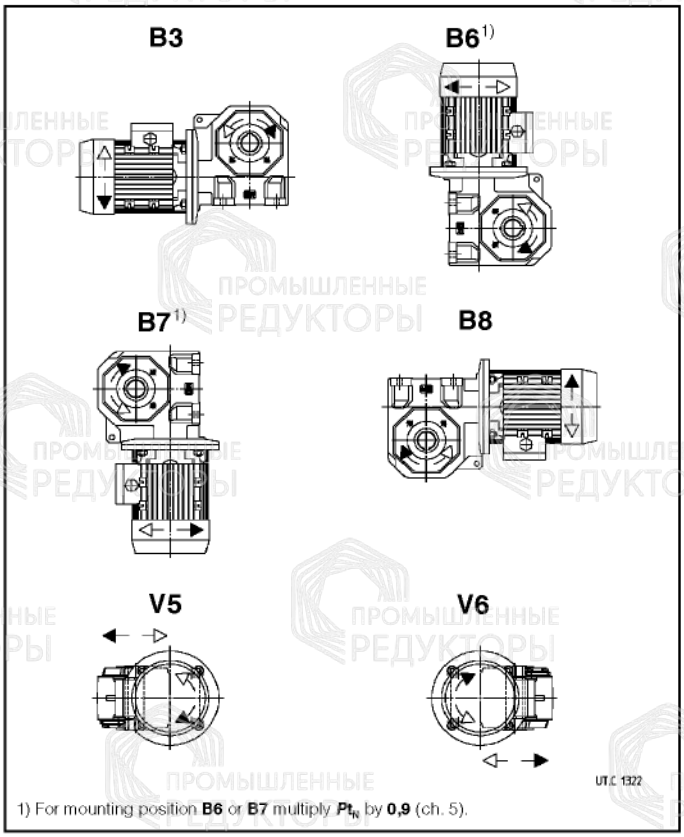
4 - Mounting positions and lubrication

Mounting positions (and direction of rotation)

Unless otherwise stated, gearmotors are supplied in mounting position **B3** (**B3** and **B8** for sizes ≤ 535) which, being standard, is **omitted** from the designation.

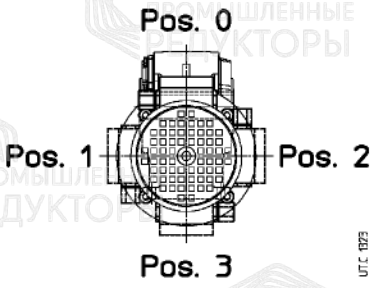


1) For mounting position **B6** or **B7** multiply Pt_N by **0,9** (ch. 5).

Terminal box position

Unless otherwise stated, gearmotors are supplied with motor terminal box in position 0, as stated in the figure below. On request, positions 1 ... 3 are available: complete the designation stating «**terminal box position 1**, **2** or **3**» (according to figure below).

Cable gland can be fitted in a position different from the one given in the figure (at Buyer's care).
In position 3 the terminal box projects below the foot mounting surface.



Lubrication

Worm gear pairs and bearings are oil-bath lubricated; worm-wheel bearings are lubricated with grease – assuming pollution-free surroundings – «**for life**» (bearings with low-friction rubber seals).
All sizes are envisaged with synthetic oil lubrication (synthetic oils can withstand operating temperatures up to **203 ÷ 230 °F** (95 ÷ 110 °C).

Gearmotors are supplied **filled with synthetic oil** (AGIP Blasia S 320, KLÜBER Klübersynth GH 6-320, MOBIL Glygoyle HE 320, SHELL Tivela S 320), providing «**long life**» lubrication, assuming pollution-free surroundings. Ambient temperature 32 ÷ 104 °F (0 ÷ 40 °C) with peaks of -4 °F (-20 °C) and +122 °F (+50 °C).
An overall guide to **oil-change interval**, is given in the table, and assumes pollution-free surroundings. Where heavy overloads are present, halve the value.

Oil temperature [°F]	Oil-change interval [h] - Synthetic oil
≤ 149	18 000
149 ÷ 176	12 500
176 ÷ 203	9 000
203 ÷ 230	6 300

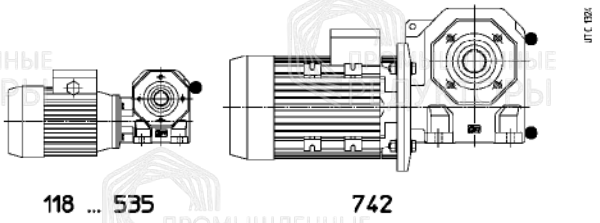
Never mix different makes of synthetic oil; if oil-change involves switching to a type different from that used hitherto, then give the gear reducer a thorough clean-out.

Important: be sure that the gearmotor is installed as per mounting position ordered and stated on the name plate: if the gearmotor is installed in a **different mounting position** verify, according to the values given in the table and/or on the lubrication plate, that the **oil quantity** doesn't **change**; if so, **adjust** it accordingly.

Size	Oil quantities [gal]		
	B3, V5, V6	**B8**	**B6, B7**
118	0.04		0.07
225	0.05		0.08
325	0.08		0.12
430	0.16		0.24
535	0.29		0.42
742	0.42	0.58	0.77

Running-in: a period of about 200 ÷ 800 h is advisable, by which time the gear pair will have reached maximum efficiency (ch. 11); oil temperature during this period is likely to reach higher levels than would normally be the case.

Seal rings: duration depends on several factors such as dragging speed, temperature, ambient conditions, etc.; as a rough guide it can vary from 3 150 to 12 500 h.

Plug position

Gearmotors are provided with 1 plug (2 plugs for size 742) positioned as in figure below. No level plug is foreseen.