

→ Primary Part / 3-phase PLM-025-192-3HE

| | | | | |
|-------------------------------------|--------------|-----------------------|-------------------|--------------------|
| DC link voltage | U_{DClink} | [V _{DC}] | 325 | 560 |
| Pole pair length | 2p | [mm] | | 32 |
| Motor resistance (U-V, 25°C) | R_{U-V} | [Ω] | | 1.3 |
| Motor inductance (U-V, 25°C, 1 kHz) | L_{U-V} | [mH] | | 10.1 |
| Peak force (c.d.f. 40%) | F_{max} | [N] | | 245 |
| Peak current (c.d.f. 40%) | I_{max} | [A _{RMS}] | | 14.0 |
| Continuous force | F_{Cont} | [N] | 148 ¹⁾ | 141 ¹⁾ |
| Continuous current | I_{Cont} | [A _{RMS}] | 7.1 ¹⁾ | 7.6 ¹⁾ |
| Rated velocity | v_N | [m/s] | 10 | 20 |
| Rated power | P_N | [W] | 1480 | 2800 |
| Force constant | k_F | [N/A _{RMS}] | 20.8 | 18.6 |
| Voltage constant | k_E | [Vs/m] | | 13.8 |
| Magnetic pull | F_A | [N] | | 1333 ²⁾ |
| Ambient temperature | T_a | [°C] | -20 ... +40 | |
| Length of primary part | L_p | [mm] | 192 | |
| Mass of primary part | m | [kg] | 2.4 | |
| Dimensions primary part | LxBxH | [mm] | 192 x 59 x 44 | |

1) with mounting plate 370 x 230 x 16 mm³ at T_a=25 °C

2) preliminary value

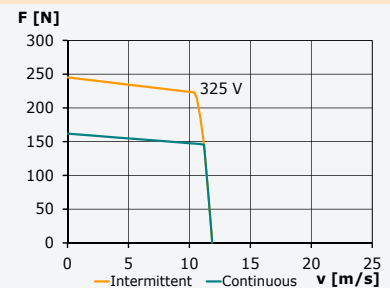
→ Pin assignments

| Motor cable | | PTC cable ²⁾ | |
|---|-------------|---------------------------------------|--------|
| Cable length approx. 1.0 m, ø 9.6 mm, 4x1.0 mm ² | | Cable length approx. 1.0 m, ø 4.8 mm. | |
| Wire marker | Motor phase | Wire colour | Signal |
| 1 (black) | U | blue (white) | PTC |
| 2 (grey or red) | V | brown | PTC |
| 3 (brown) | W | | |
| gn/ye | PE | | |
| bare | Shield | | |

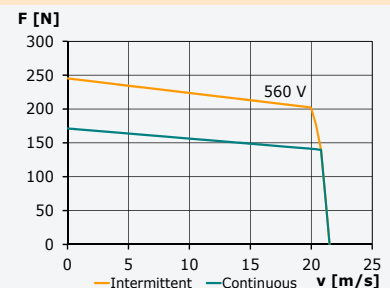
²⁾ PTC 100°C

Technical data and characteristics for 325 V DC link voltage with ECOVARIO®414 servo amplifier.
 Technical data and characteristics for 560 V DC link voltage with ECOVARIO®616 servo amplifier.

→ Characteristic PLM-025-192-3HE (325V)

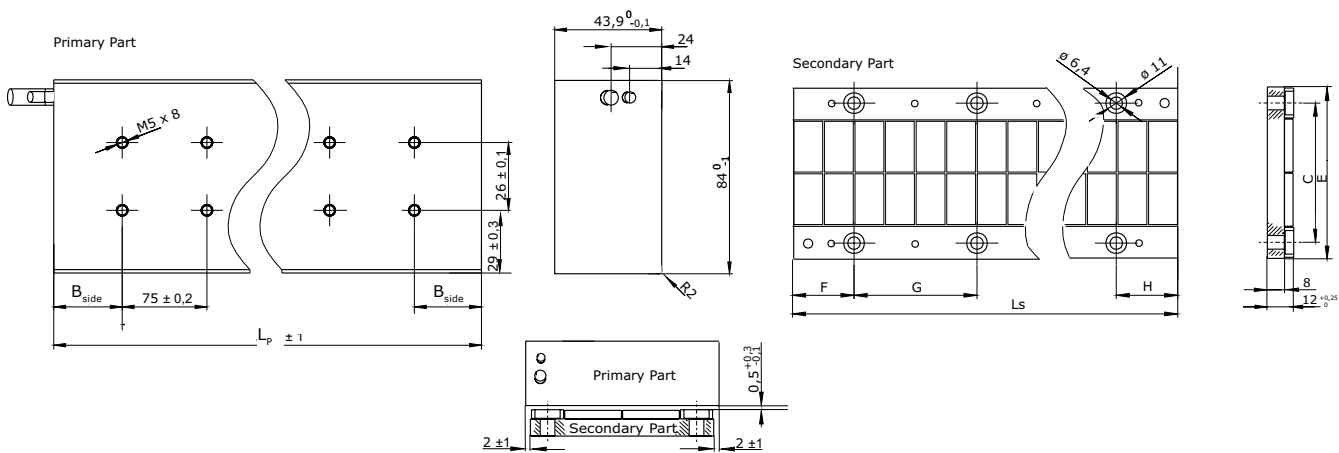


→ Characteristic PLM-025-192-3HE (560V)

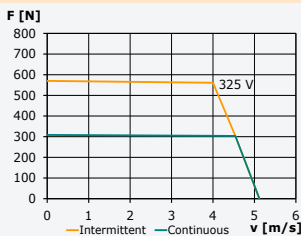


| → Secondary part | C | E | F | G | H | Ls | Weight |
|------------------|----|----|------|--------|------|-------|--------|
| MS-020-0064-200 | 40 | 55 | 31.8 | - | 31.8 | 63.6 | 0.3 kg |
| MS-020-0128-200 | 40 | 55 | 31.8 | 64 | 31.8 | 127.6 | 0.6 kg |
| MS-020-0256-200 | 40 | 55 | 31.8 | 3 x 64 | 31.8 | 255.6 | 1.2 kg |
| MS-020-0512-200 | 40 | 55 | 31.8 | 7 x 64 | 31.8 | 511.6 | 2.5 kg |

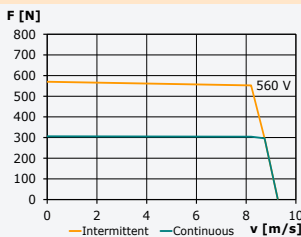




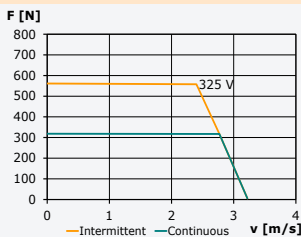
→ Characteristic PLM-050-192-3HK (325V)



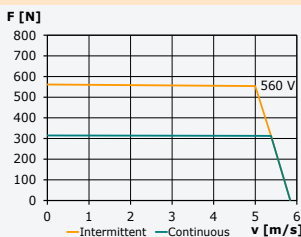
→ Characteristic PLM-050-192-3HK (560V)



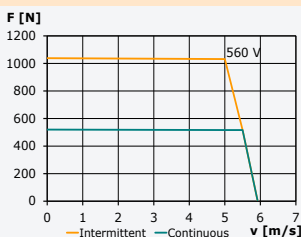
→ Characteristic PLM-050-192-3HJ (325V)



→ Characteristic PLM-050-192-3HJ (560V)



→ Characteristic PLM-050-368-3HJ (560V)



→ Primary Part / 3-phase

| | | PLM-050-192-3HK | PLM-050-192-3HJ | PLM-050-368-3HJ | PLM-050-368-3HO |
|-------------------------------------|---------------------------------|--------------------|--------------------|--------------------|--------------------|
| DC link voltage | U_{DClink} [V _{DC}] | 325 | 560 | 325 | 560 |
| Pole pair length | 2p [mm] | 32 | 32 | 32 | 32 |
| Motor resistance (U-V, 25°C) | R_{U-V} [Ω] | 2.1 | 2.1 | 4.8 | 4.8 |
| Motor inductance (U-V, 25°C, 1 kHz) | L_{U-V} [mH] | 22.2 | 22.2 | 58.4 | 58.4 |
| Peak force (c.d.f. 25%) | F_{max} [N] | 570 | 570 | 561 | 561 |
| Peak current (c.d.f. 25%) | I_{max} [A _{RMS}] | 14.1 | 14.1 | 8.6 | 8.6 |
| Continuous force | F_{Cont} [N] | 304 ¹⁾ | 297 ¹⁾ | 317 ¹⁾ | 313 ¹⁾ |
| Continuous current | I_{Cont} [A _{RMS}] | 6.0 ¹⁾ | 5.9 ¹⁾ | 3.8 ¹⁾ | 3.7 ¹⁾ |
| Rated velocity | v_N [m/s] | 4.0 | 8.0 | 2.0 | 4.0 |
| Rated power | P_N [W] | 1200 | 2400 | 600 | 1300 |
| Force constant | k_F [N/A _{RMS}] | 50.3 | 50.6 | 83.4 | 84.5 |
| Voltage constant | k_E [Vs/m] | 32.0 | 32.0 | 50.8 | 50.8 |
| Magnetic pull | F_A [N] | 2560 ²⁾ | 2560 ²⁾ | 2560 ²⁾ | 2560 ²⁾ |
| Ambient temperature | T_a [°C] | -20 ... +40 | | | |
| Margin width | B_{side} [mm] | 21 | 21 | 21 | 21 |
| Length of primary part | L_p [mm] | 192 | 192 | 192 | 192 |
| Mass of primary part | m [kg] | 4.0 | 4.0 | 4.0 | 4.0 |

1) with mounting plate 370 x 230 x 16 mm² at $T_p=25$ °C 2) preliminary value

→ Pin assignments

→ Motor cable

Cable length approx. 1.0 m, Ø 9.6 mm 4x1.0mm²

→ PTC cable

PTC 100°C, Cable length approx. 1.0 m, Ø 4.8 mm

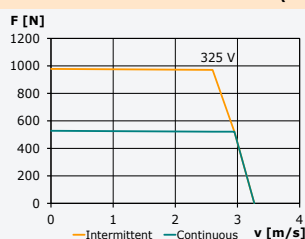
| Wire marker | Motor phase | Wire colour | Signal |
|-----------------|-------------|--------------|--------|
| 1 (black) | U | blue (white) | PTC |
| 2 (grey or red) | V | brown | PTC |
| 3 (brown) | W | | |
| gn/ye | PE | | |
| bare | Shield | | |

Technical data and characteristics for 325 V DC link voltage with ECOVARIO®414 servo amplifier.
 Technical data and characteristics for 560 V DC link voltage with ECOVARIO®616 servo amplifier.

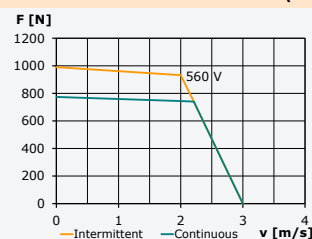
→ Secondary part C E F G H Ls Mass

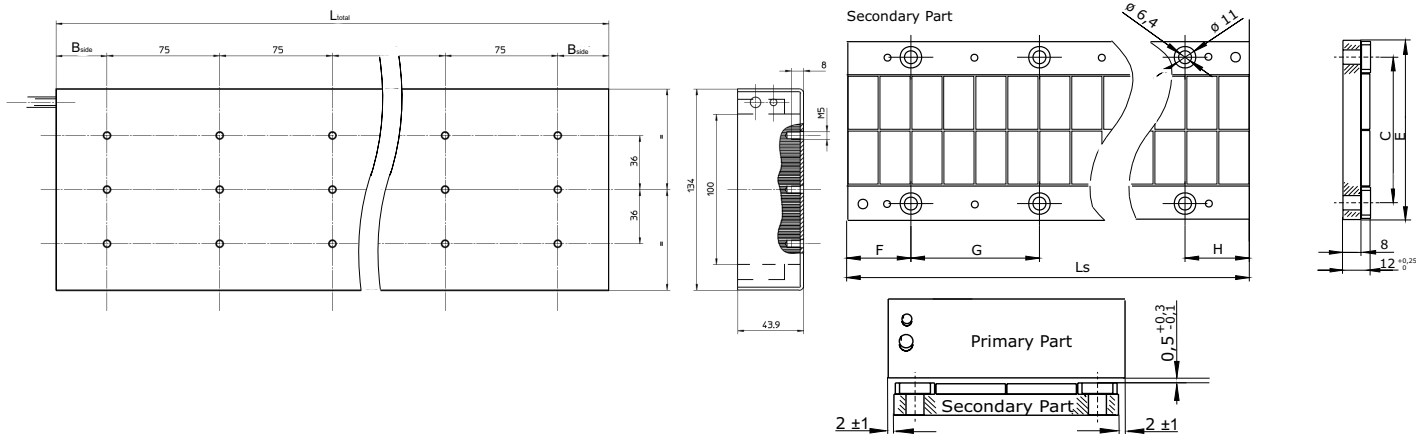
| | | | | | | | |
|-----------------|----|----|----|--------|----|-------|---------|
| MS-075-0064-200 | 65 | 80 | 32 | - | 32 | 63.6 | 0.45 kg |
| MS-075-0128-200 | 65 | 80 | 32 | 64 | 32 | 127.6 | 0.9 kg |
| MS-075-0256-200 | 65 | 80 | 32 | 3 x 64 | 32 | 255.6 | 1.8 kg |
| MS-075-0512-200 | 65 | 80 | 32 | 7 x 64 | 32 | 511.6 | 3.6 kg |

→ Characteristic PLM-050-368-3HJ (325V)



→ Characteristic PLM-050-368-3HO (325V)





→ Primary Part PLM-100 / 3-phase

| Primary Part | | PLM-100-192-3HL | | PLM-100-368-3HP | |
|-------------------------------------|---------------------------------|--------------------|------|---------------------|------|
| DC link voltage | U_{DClink} [V _{DC}] | 325 | 560 | 325 | 560 |
| Pole pair length | 2p [mm] | 32 | | | |
| Motor resistance (U-V, 25°C) | R_{U-V} [Ω] | 2.8 | | 4.0 | |
| Motor inductance (U-V, 25°C, 1 kHz) | L_{U-V} [mH] | 31.9 | | 48.8 | |
| Peak force (c.d.f. 15%) | F_{max} [N] | 1164 | | 2329 | |
| Peak current (c.d.f. 15%) | I_{max} [A _{eff}] | 14.0 | | 16.0 | |
| Continuous force (c.d.f. 100%) | F_{cont} [N] | 550 ¹⁾ | | 975 ¹⁾ | |
| Continuous current (c.d.f. 100%) | I_{cont} [A _{eff}] | 5.5 ¹⁾ | | 5.6 ¹⁾ | |
| Rated velocity | V_N [m/s] | 2.0 | 4.0 | 1.0 | 2.0 |
| Rated power | P_N [W] | 1110 | 2200 | 1010 | 1950 |
| Force constant | k_F [N/A _{eff}] | 100 | | 180 | |
| Voltage constant | k_E [Vs/m] | 62.7 | | 109.6 | |
| Magnetic pull | F_A [N] | 5120 ²⁾ | | 10240 ²⁾ | |
| Ambient temperature | T_U [°C] | -20 ... +40 | | | |
| Margin width | B_{side} [mm] | 21 | | 34 | |
| Length of primary part | L_{total} [mm] | 192 | | 368 | |
| Mass of primary part | m [kg] | 6.8 | | 13.0 | |

1) with mounting plate 370 x 230 x 16 mm² at $T_U=25$ °C 2) preliminary value

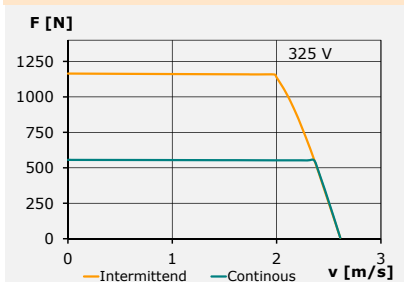
→ Pin assignments

| Motor cable | | PTC cable | |
|---|--------------|---|--------|
| Cable length approx. 1.0 m, Ø 9.6 mm 4x1.0mm ² | | PTC 100°C, Cable length approx. 1.0 m, ø 4.8 mm | |
| Wire marker | Motor signal | Wire colour | Signal |
| 1 (black) | U | blue (white) | PTC |
| 2 (grey or red) | V | brown | PTC |
| 3 (brown) | W | | |
| gn/ye | PE | | |
| bare | Shield | | |

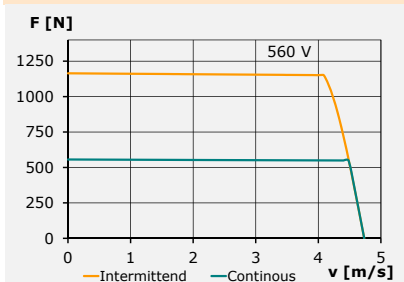
| Secondary Part (sealed version) | magnetic path | C | E | F | G | H | Ls | Mass |
|---------------------------------|---------------|-----|-----|----|--------|----|-----|--------|
| MS-100-0064-200 | 100 mm | 115 | 130 | 32 | - | 32 | 64 | 0.8 kg |
| MS-100-0128-200 | 100 mm | 115 | 130 | 32 | 64 | 32 | 128 | 1.6 kg |
| MS-100-0256-200 | 100 mm | 115 | 130 | 32 | 3 x 64 | 32 | 256 | 3.2 kg |
| MS-100-0512-200 | 100 mm | 115 | 130 | 32 | 7 x 64 | 32 | 512 | 6.4 kg |

| Secondary Part (open version) | magnetic path | C | E | F | G | H | Ls | Mass |
|-------------------------------|---------------|-----|-----|----|--------|----|-----|--------|
| MS-100-0064-000 | 100 mm | 115 | 130 | 32 | - | 32 | 64 | 0.8 kg |
| MS-100-0128-000 | 100 mm | 115 | 130 | 32 | 64 | 32 | 128 | 1.6 kg |
| MS-100-0256-000 | 100 mm | 115 | 130 | 32 | 3 x 64 | 32 | 256 | 3.2 kg |
| MS-100-0512-000 | 100 mm | 115 | 130 | 32 | 7 x 64 | 32 | 512 | 6.4 kg |

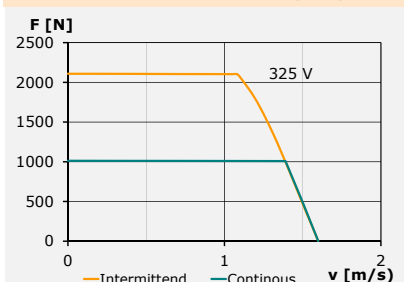
→ Characteristic PLM-100-192-3HL (325V)



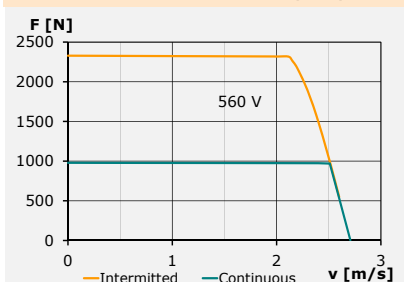
→ Characteristic PLM-100-192-3HL (560V)



→ Characteristic PLM-100-368-3HP (325V)



→ Characteristic PLM-100-368-3HP (560V)



Technical data and characteristics for 325 V DC link voltage with ECOVARIO®414 servo amplifier.

Technical data and characteristics for 560 V DC link voltage with ECOVARIO®616 servo amplifier.

