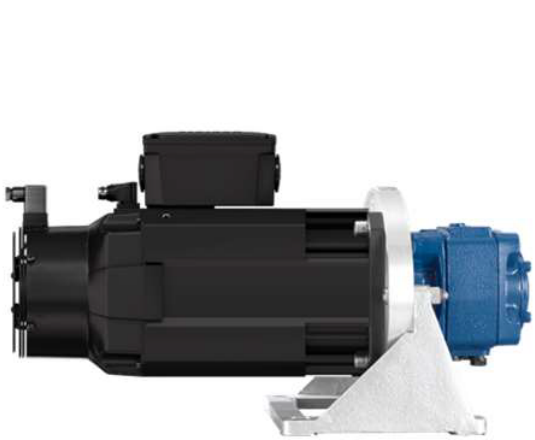
減少能源消耗



博世力士樂 液壓伺服節能系統
Sytronix SvP 5020

- **降低部分負載運行中的能耗，最高可降低80%**
  → 降低能源成本，減少碳足跡
- **通過降低能耗來顯著減少熱量** → 減少冷卻動力單元的開支
- **降低噪音** → 無需二次降噪措施即可更輕鬆地集成到機器中
- **狀態監測與診斷** → 更可靠的運行
- **易於調試** (IndraWorks Ds) → 降低成本



Connected Hydraulics
Now. Next. Beyond.

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系統總覽

4EE ENERGY EFFICIENCY

Sytronix

標準配置

壓力 控制系統 (p)	壓力 / 流量 控制系統 (p/Q)	壓力 / 控制 / 位置 控制系統 (p/Q, F/x)
DRn 5020 4.0 ~ 160 kW* 	DFEn 15~315 kW HS5n 15~650 kW 	SvP 7020 9 ~ 80 kW 
FcP 5020 0.4 ~ 18.5 kW* 	SvP 5020 9 ~ 65 kW 	

* Recommended power values

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系統總覽
SvP 5020 – Medium dynamics & accuracy

Function

- 壓力控制
- 流量控制
- 功率限制

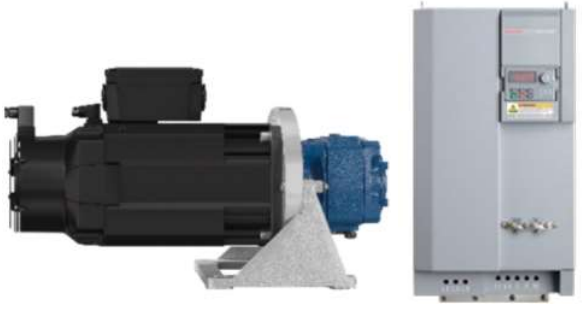
力控制

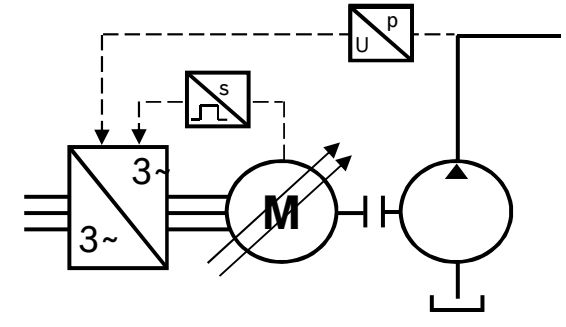
位置控制

For axis control

- Medium dynamics and accuracy (100 ms from 0 to max speed)
- Alternating p/Q control

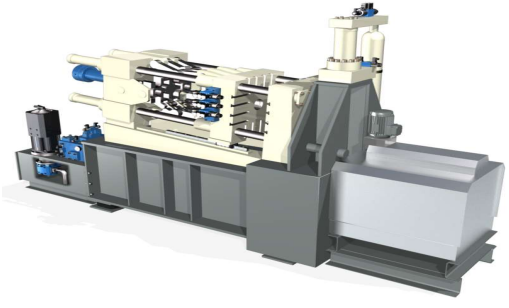
System overview





Application examples





Main application

- Injection molding machines
- Die casting machines

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系統總覽
SvP 7020 – High dynamics & accuracy

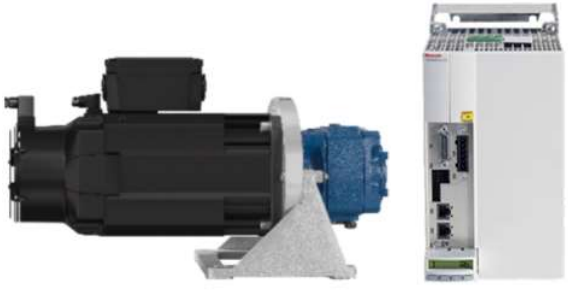
Function

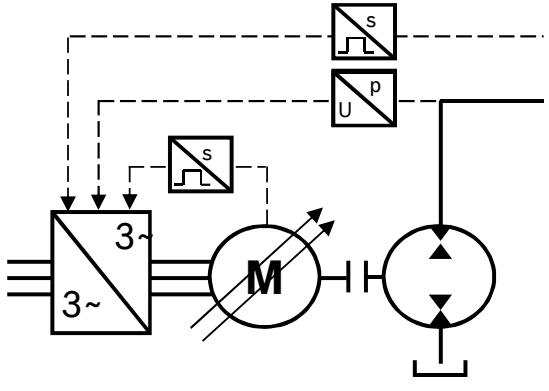
- 壓力控制
- 流量控制
- 功率限制
- 力控制
- 位置控制

For axis control

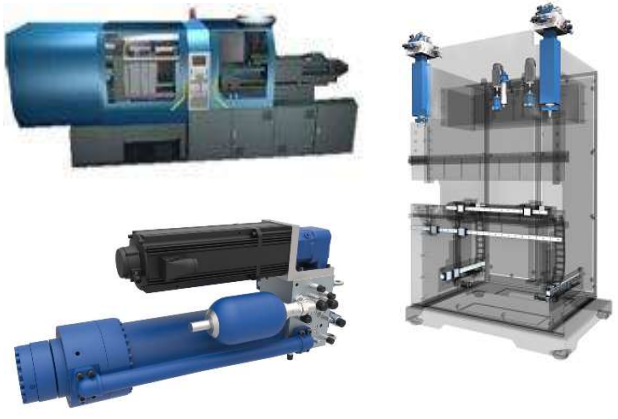
- High dynamics and accuracy (30..50 ms from 0 to max speed)
- Alternating p/Q control
- Alternating force and position control

System overview





Application examples



Main applications

- Injection molding machines
- Presses with p/Q control or position control
- Self-contained hydraulic linear axis

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Sytronix 組件
SvP 5020泵浦



A10FZO



A10VZO



PGH



PGM

開式液壓迴路的泵產品組合

- 力士樂技術可降低能耗並同時降低噪音排放
- 通過內齒輪泵、定排量或變排量軸向柱塞泵進行節能驅動
- 廣泛使用的各種變速泵驅動器實現了即用型解決方案–包括功率和功能上的微調

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Sytronix 組件
Sytronix 伺服馬達



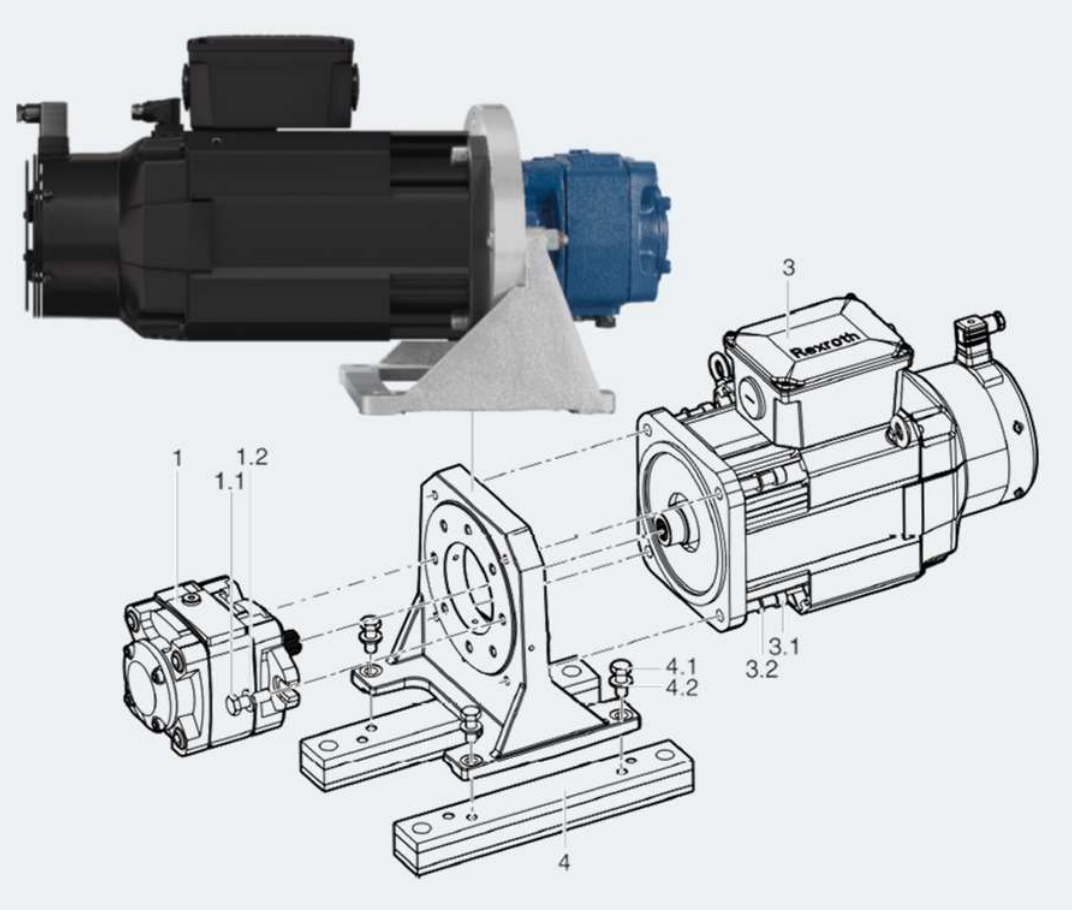
新的馬達產品組合MS2N和MSK133

- 使用高規材料減少內損
- 於高轉速增加S1扭矩
- 擴展弱磁區的轉矩速度範圍
- 水冷(選配): 不銹鋼的堅固設計允許輕鬆可靠地集成到各種冷卻迴路中
- 直結式安裝可用於MS2N10和MSK133，與泵PGH和PGM結合使用

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Sytronix 組件
Motor-Pump-Assembly MPA

further information
Start presentation mode to open link



直結式安裝的好處

無需額外的聯軸器和鍾形罩

長度減少約150mm

由於更好地將熱量從電機傳遞到泵，從而改善了電機冷卻

更低的慣性提高了能源效率和動力

安裝更容易

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Sytronix 組件
變頻器EFC 5610

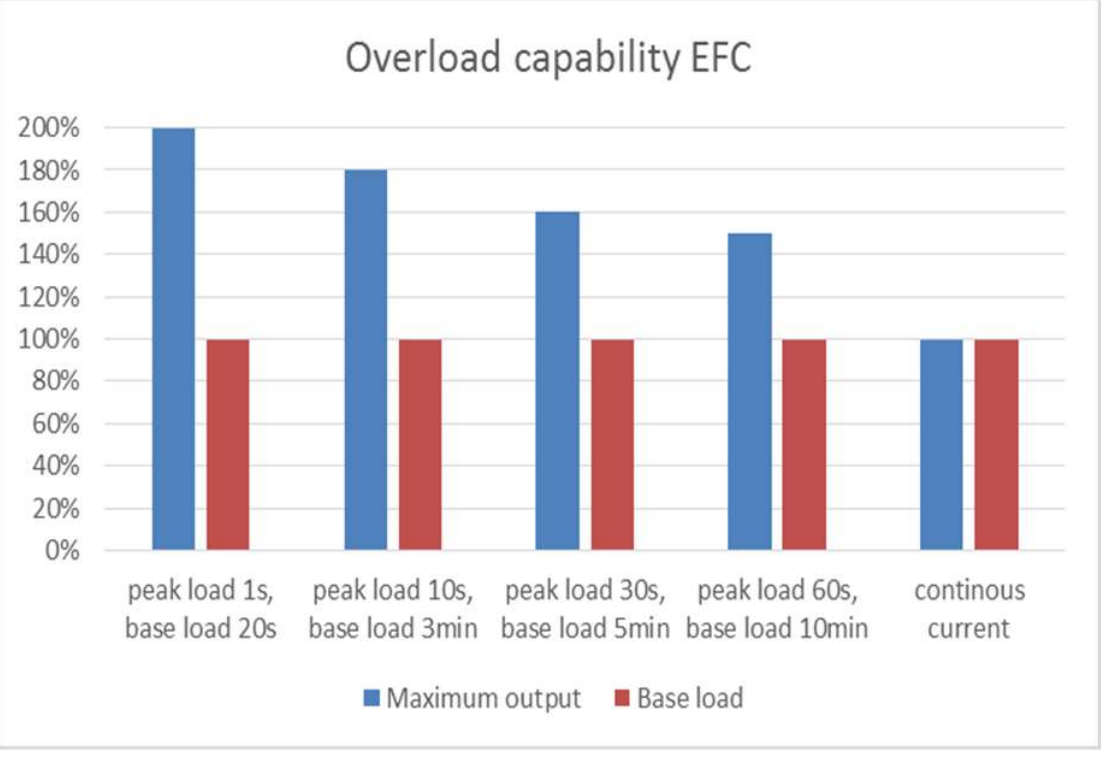


Sytronix SvP 5020緊湊型驅動器

- 功率範圍：3 x AC 400 V, 7.5 to 90 kW
- 體積小巧，安裝簡單
- 集成式操作面板，方便快速調試
- 用於I / O和通訊的擴展模塊
- SvP 5020技術功能包含在變頻器韌體(Application Specific Firmware)
- 可選的安全扭矩關閉STO (Cat. 4 SIL3 PLe)
- 便利的接線，帶有用於所有控制和通訊接口的插入式端子

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Sytronix 組件
變頻器EFC 5610



Sytronix SvP 5020緊湊型驅動器

- 變頻器也可以在短時間內過載運行
- 允許的負載週期：

  150%的電流持續60秒，則驅動器必須在額定電流或更小值下運行> 10分鐘。

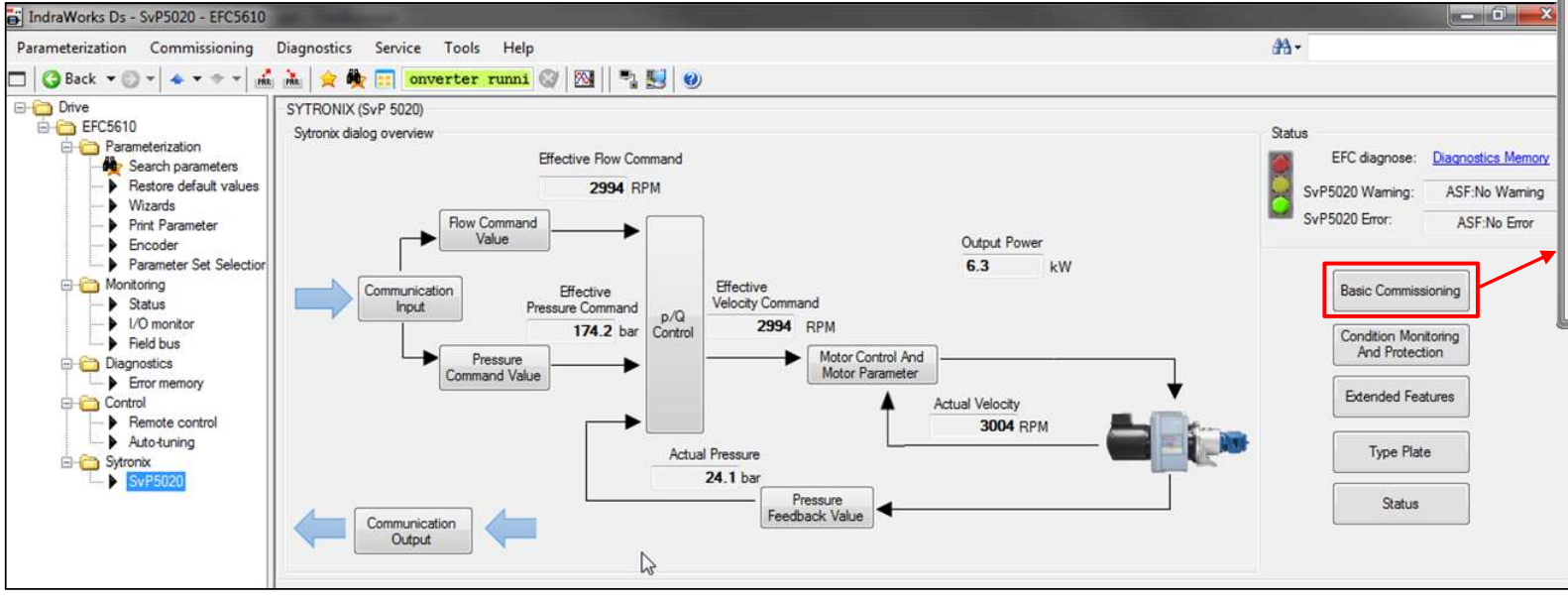
  200%的電流持續1秒鐘，則驅動器必須在額定電流或更小值下運行> = 20秒。

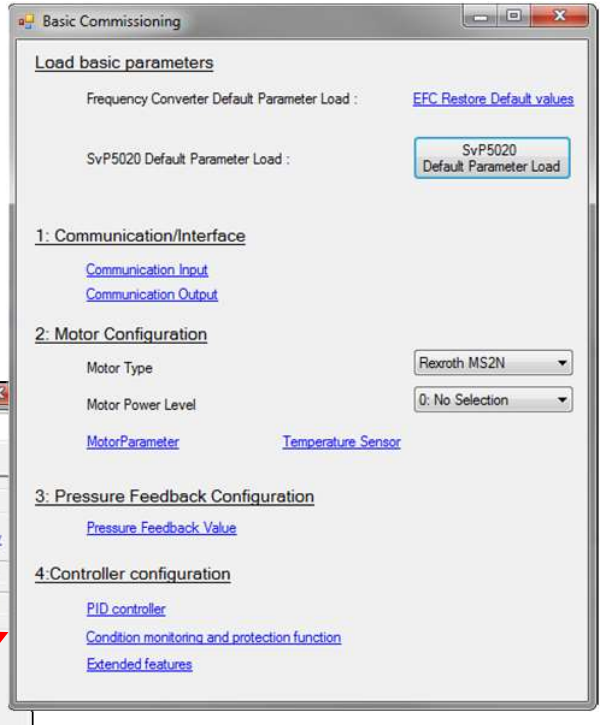
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Sytronix 工具
IndraWorks Ds

客戶的好處:

- 調試更快
- 用戶友善的狀態對話窗減少了停機時間





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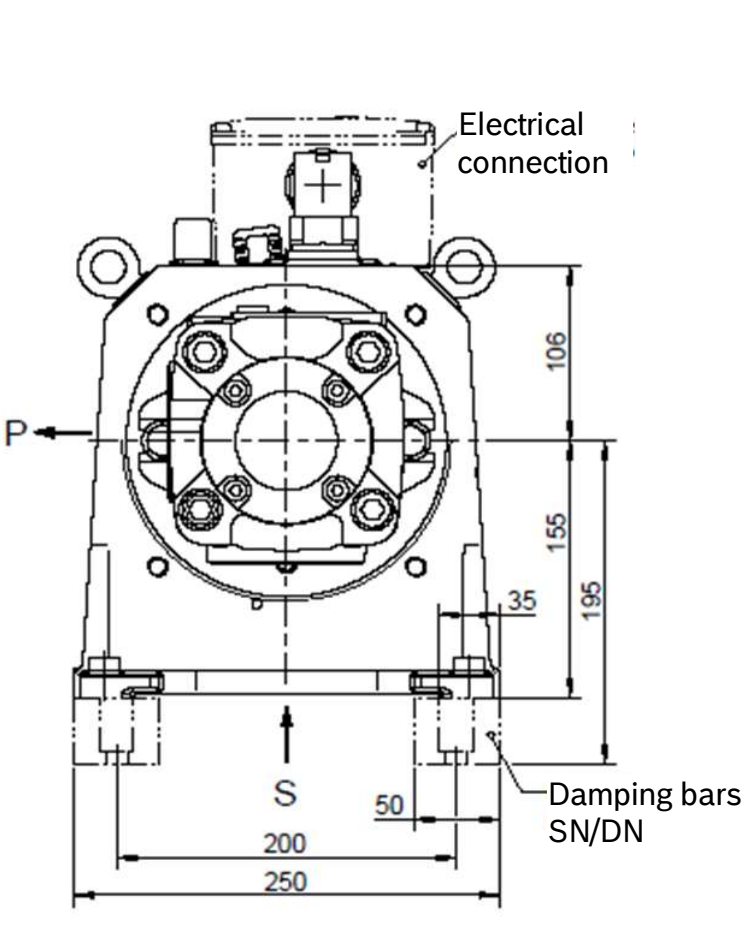
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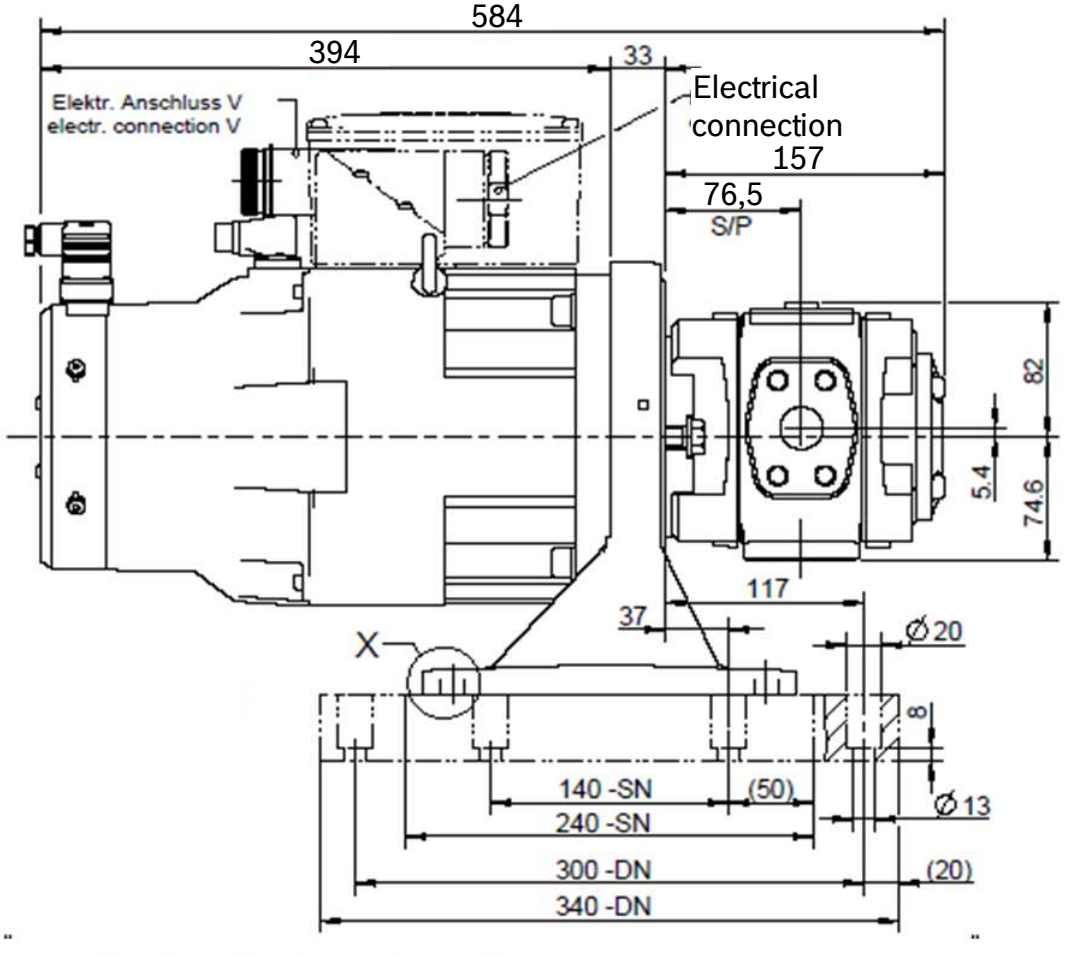
Sytronix 組件
標準組合

規格 (L/Min.)	60	75	100	120	150	190
馬達規格 kW	MS2N10-D0BNA (16kW)	MS2N10-D0BNA (16kW)	MS2N10-D0BNA (16kW)	MS2N10-E0BNA (20kW)	MS2N10-E0BNA (20kW)	MS2N10-F1BHA (22kW)
吐出量 L/min	60(20cc)	75(25cc)	100(32cc)	120(40cc)	150(50cc)	190(63cc)
變頻器 EFC 規格 kW	15kW	18.5kW	22kW	30kW	37kW	37kW

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Set 100S2
Dimensions MS2N10-D0BNA + 32 cc pump



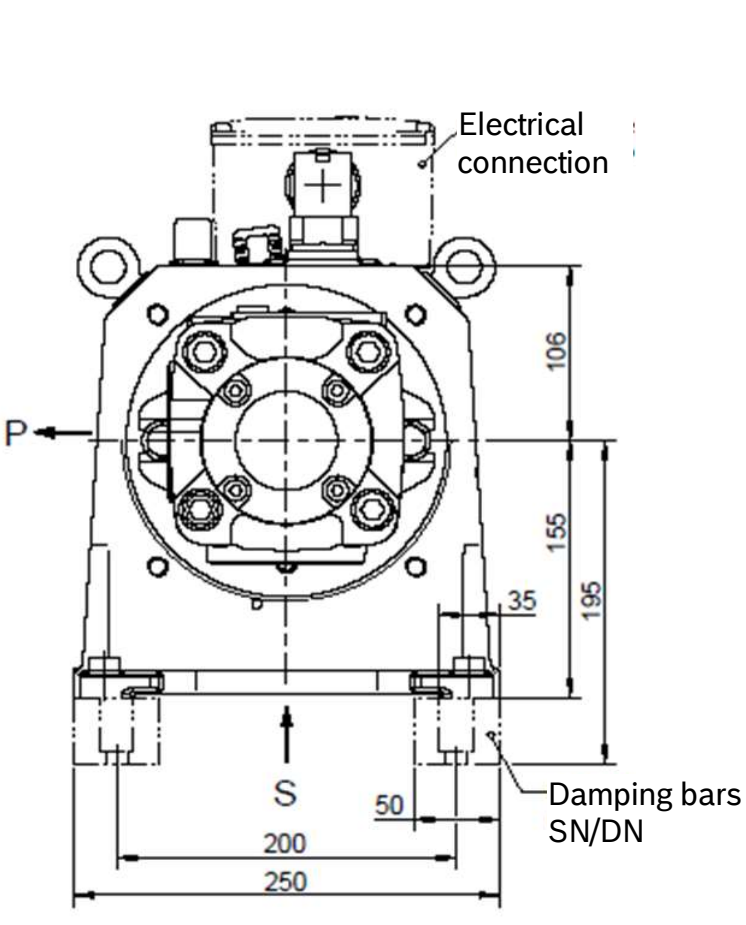


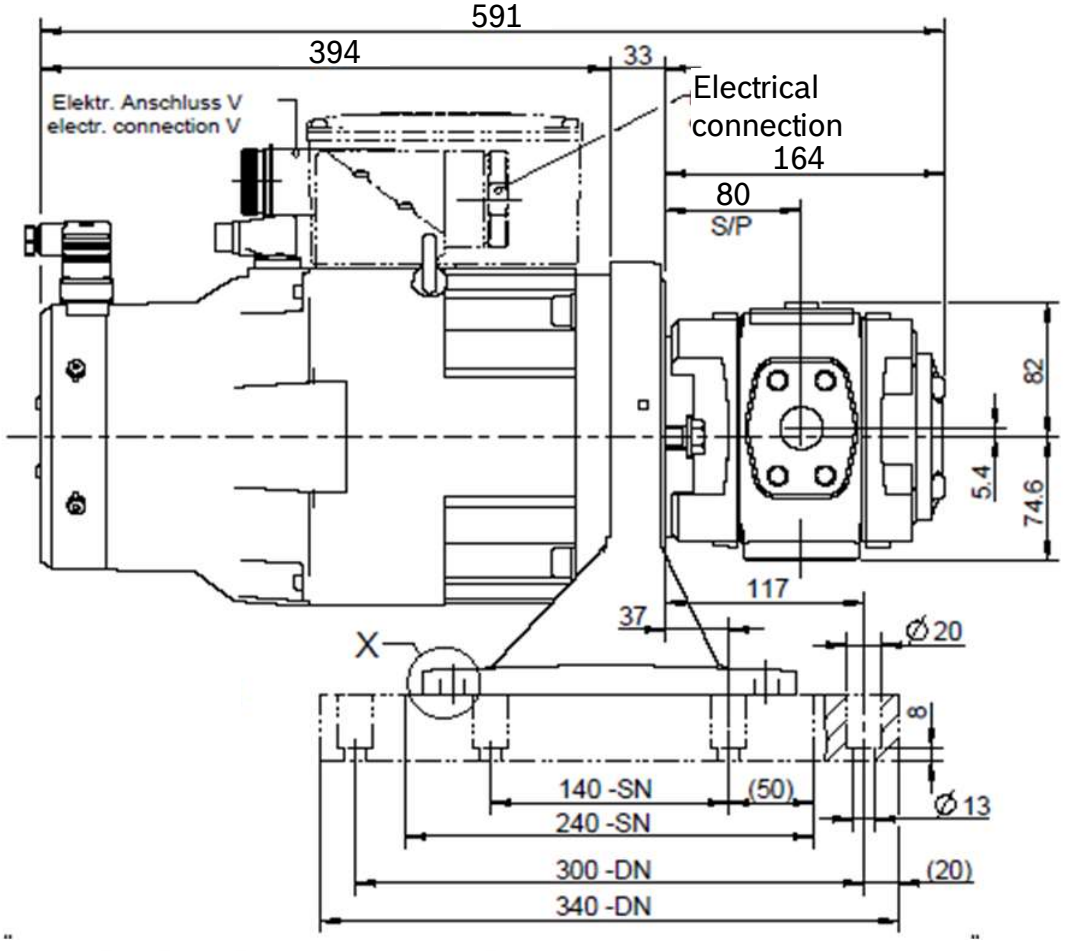
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Set 120S2
Dimensions MS2N10-D0BNA + 40 cc pump



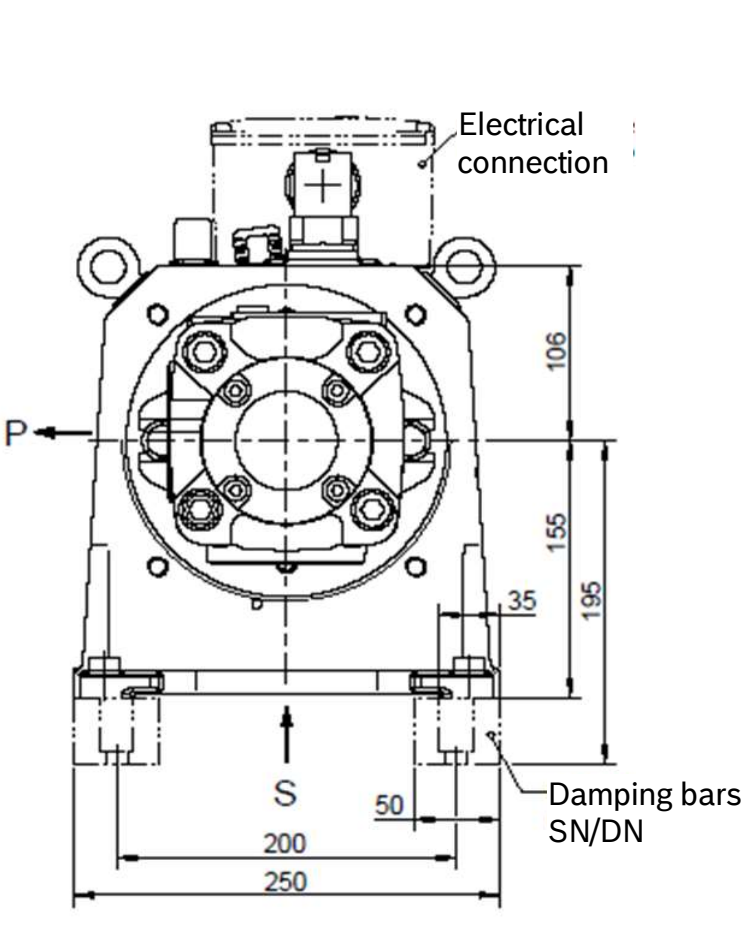


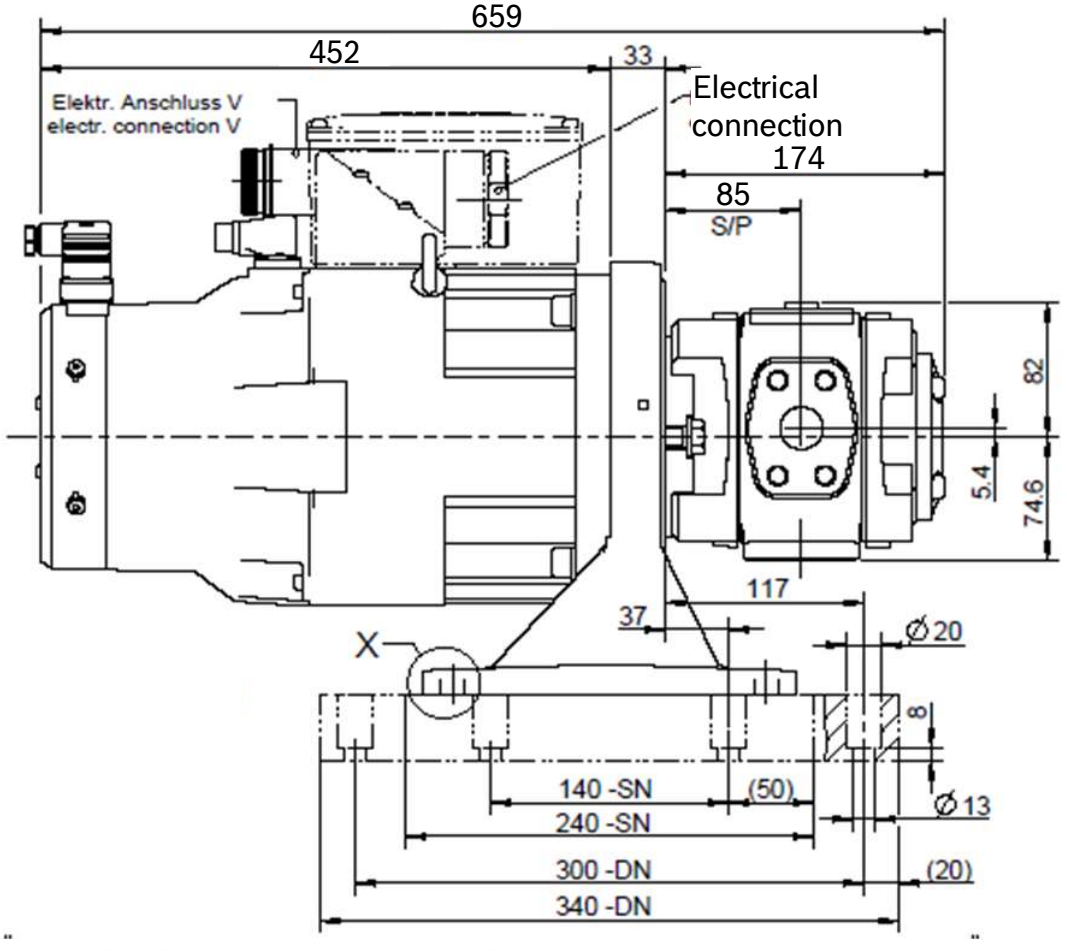
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Set 150S2
Dimensions MS2N10-E0BNA + 50 cc pump



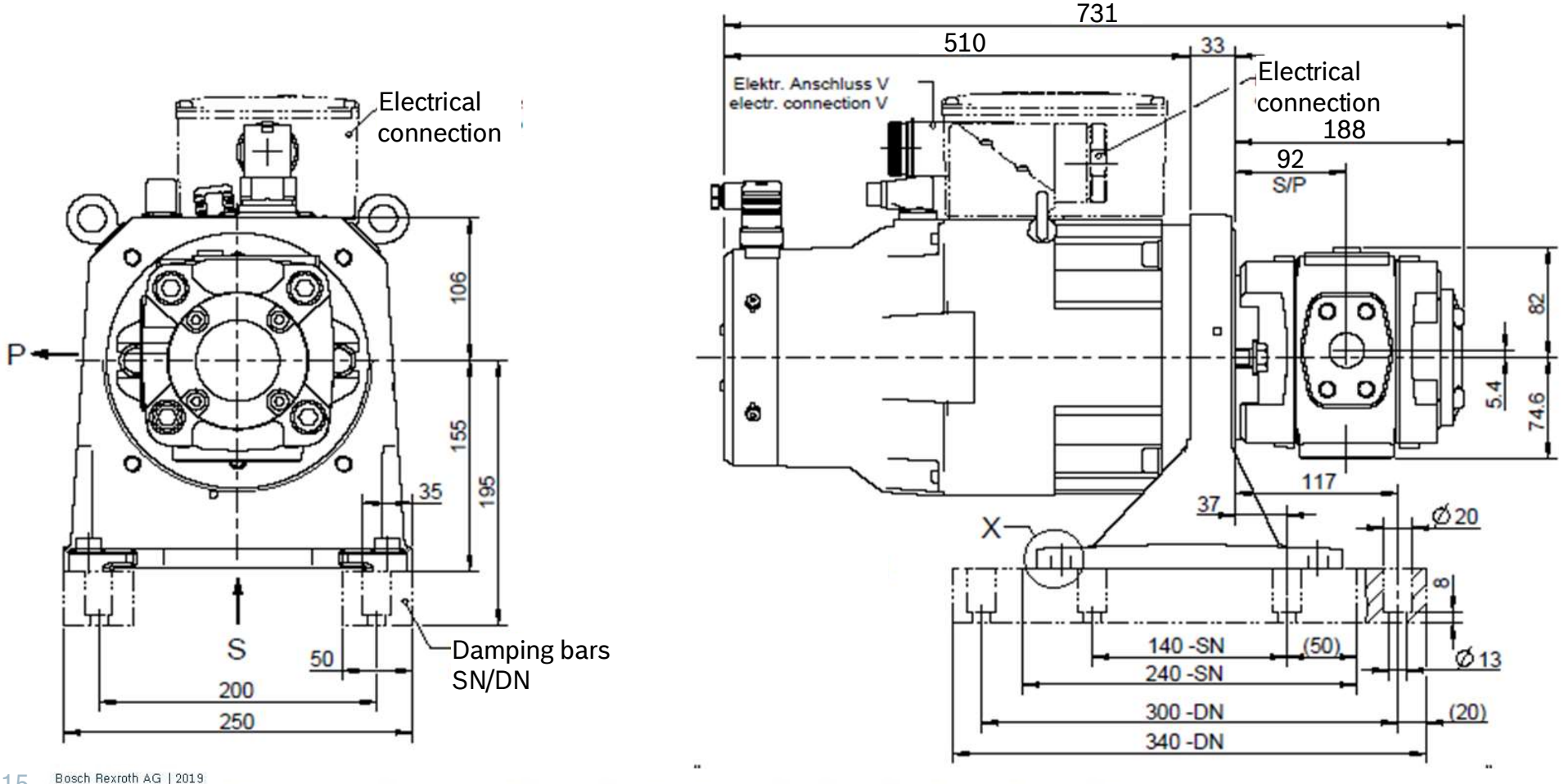


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Set 190S2
Dimensions MS2N10-F1BHA + 63 cc pump



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