Preface

This manual provides the information needed to install, wire, and configure the SIMATIC® TI505™ Input/Output modules listed below.

- Discrete Input Modules (AC Input):
  PPX:505–4008 PPX:505–4016 PPX:505–4032
  PPX:505–4008–A PPX:505–4016–A PPX:505–4032–A
  PPX:505–4208 PPX:505–4216 PPX:505–4232
  PPX:505–4208–A PPX:505–4216–A PPX:505–4232–A
  PPX:505–4408 PPX:505–4416 PPX:505–4432*
  PPX:505–4408–A PPX:505–4416–A PPX:505–4432–A*

- Discrete Input Modules (DC Input):
  PPX:505–4108 PPX:505–4116 PPX:505–4132
  PPX:505–4308 PPX:505–4316 PPX:505–4332
  PPX:505–4316–A

- Discrete Output Modules (DC Sinking):
  PPX:505–3508 PPX:505–3516 PPX:505–3532
  PPX:505–3708* PPX:505–3716* PPX:505–3732*

- Discrete Output Modules (DC Sourcing):
  PPX:505–4508 PPX:505–4516 PPX:505–4532
  PPX:505–4708* PPX:505–4716* PPX:505–4732*

- Discrete Output Modules (AC Output):
  PPX:505–4608 PPX:505–4616 PPX:505–4632
  PPX:505–4808* PPX:505–4816* PPX:505–4832*

- Relay Output Modules:
  PPX:505–4908 PPX:505–4916 PPX:505–4932*
  PPX:505–5417
  PPX:505–5518

- Word Input Module:
  PPX:505–6308*

- Word Output Module:
  PPX:505–6408*

- Input Simulator:
  PPX:505–6010

- Output Simulator
  PPX:505–6011

* double-wide

Table 3-1 Terminal Block Pin-out: 32-Point Discrete Input Modules (PPX:505–4032(A), PPX:505–4132, PPX:505–4232(A), PPX:505–4332, and PPX:505–4432(A))

User Connection	User Connection
AR = Return for 1–8	AC = Not Used
A1 = Input 1	A5 = Input 5
A2 = Input 2	A6 = Input 6
A3 = Input 3	A7 = Input 7
A4 = Input 4	A8 = Input 8
BR = Return for 9–16	BC = Not Used
B1 = Input 9	B5 = Input 13
B2 = Input 10	B6 = Input 14
B3 = Input 11	B7 = Input 15
B4 = Input 12	B8 = Input 16
CR = Return for 17–24	CC = Not Used
C1 = Input 17	C5 = Input 21
C2 = Input 18	C6 = Input 22
C3 = Input 19	C7 = Input 23
C4 = Input 20	C8 = Input 24
DR = Return for 25–32	DC = Not Used
D1 = Input 25	D5 = Input 29
D2 = Input 26	D6 = Input 30
D3 = Input 27	D7 = Input 31
D4 = Input 28	D8 = Input 32

Typical Connections

Figure 3-7 through Figure 3-15 shows typical connections for all the I/O modules.

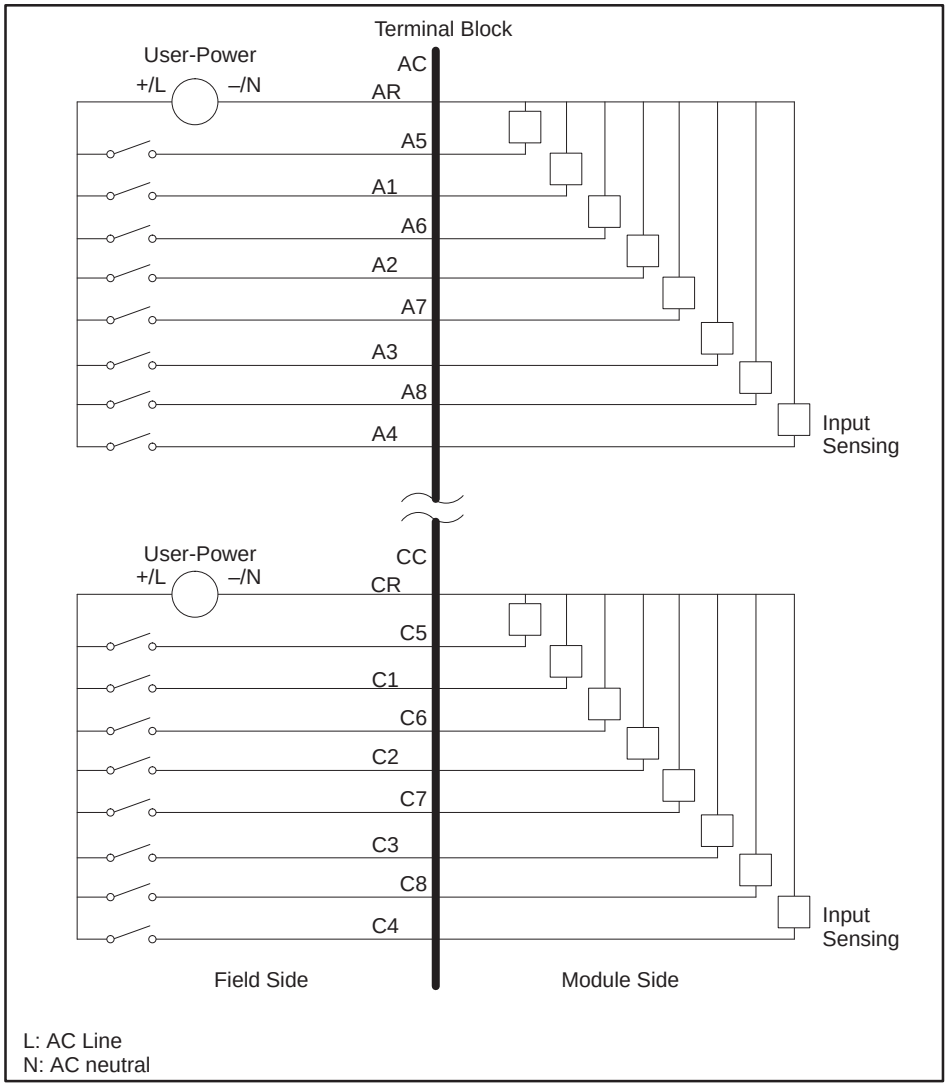

Figure 3-7 Typical Sinking Connection for 32–Point Discrete Input Modules (PPX:505–4032(A), PPX:505–4132, PPX:505–4232(A), PPX:505–4332, and PPX:505–4432(A))

Table A-5 Electrical Specifications for 110 VAC Input Modules (PPX:505–42xx (A))

Model Number	No. of Inputs	Module Width
PPX:505–4208 (–A)	8	Single-wide
PPX:505–4216 (–A)	16	Single-wide
PPX:505–4232 (–A)	32	Single-wide

Type of Inputs	IEC Type 1
Rated Voltage	100–115 VAC
Input voltage range for ON	79.0 VAC UH minimum; 132.0 VAC UH maximum
Input voltage range for OFF	0.0 VAC UL minimum; 20.0 VAC UL maximum
Input current limits during ON	4.0 mA IH minimum; 15.0 mA IH maximum
Max. input current for OFF	1.5 mA IT minimum
Delay time through module	6.0 ms minimum 30.0 ms maximum
Module power from base	2.0 W
Operating frequency	47 to 63 Hz

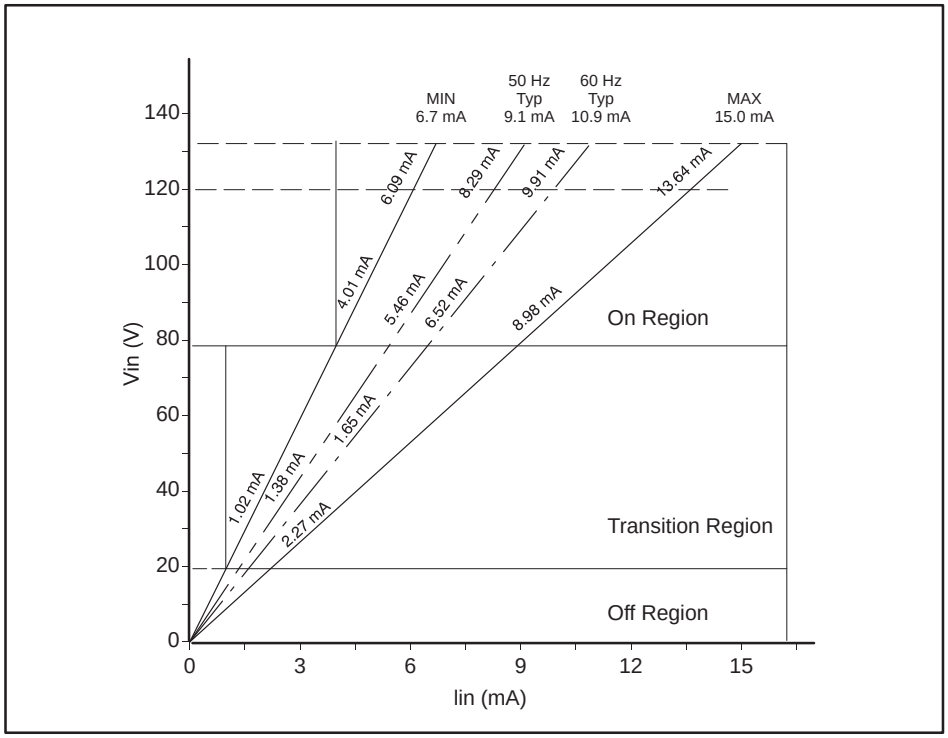

Figure A-3 Volt-Ampere Curve for PPX:505–42xx(–A) Modules