

The diagram illustrates the electrical control system for a heating plant, organized into three main functional areas:

- Top Section (Main Power and Motor Control):**
 - Supply: 24V1 (3) and 0V1 (4).
 - Components: KA20 (relay), KT20 (timer), RF 2 (relay), Q3.20 (relay), Q3.1 (PLC output), Q3.3 (motor), KW20 (relay), LP20 (lamp), LA20 (lamp).
 - Wiring: 21, 22, 24, 303, 304, 305, 306, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400.
- Middle Section (Control Circuit):**
 - Supply: 24V2 (5) and 0V2 (6).
 - Components: S20 (switch), RF 2 (relay), F3.20 (fuse), KT20 (timer), KA20 (relay), KW20 (relay), PTC (heating element), CW (cooling water), PE (ground).
 - Wiring: 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
- Bottom Section (Heating Plant Control):**
 - Supply: 24V2 (5) and 0V2 (6).
 - Components: S20 (switch), RF 2 (relay), F3.20 (fuse), KT20 (timer), KA20 (relay), KW20 (relay), PTC (heating element), CW (cooling water), PE (ground).
 - Wiring: 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

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